

**Coimbatore Institute of Technology****Department of Computing - Data Science****VII Semester M.Sc Data Science****16MDS71/ Project Work and Viva Voce I****Academic Year: June 2020 - Nov 2020****Batch:2017-22**

<b>Sno</b>	<b>RegNo</b>	<b>Name</b>	<b>Project Title</b>
1	1732001	Abishek V	Enhancing Language Translation using Transformers
2	1732002	Abitha Shree S	Ergonomics assessment and Aristotle Analytics Review Tool
3	1732003	Adnan A	Gamification of social media users to validate America-in-one room concepts in democracy
4	1732004	Aishwarya R	Property Preservation and Inspection using Computer Vision and Machine Learning Algorithms
5	1732005	Ajay Balaji	Visual Quality Inspection tool
6	1732006	Akash R	Food Calorie Estimation Method In Dietary Assessment
7	1732007	Anesh P	Product Recommendation for Buyers Market
8	1732008	Arjun .K	Bank Statement Analyser and Automated iXBRL Tagger
9	1732009	Arunraja D	Patient Identification and Processing
10	1732010	Ashvin.R	Improving personalization on product recommendations using deep learning and Gamification of social media users to validate America in one room concepts in democracy
11	1732011	Aswathi V	Agricultural Crop Detection on drone captured images using Image processing and Machine Learning Techniques
12	1732012	Baraneedharan N M	Automating Online Proctoring using AI
13	1732013	Barath M	Automatic Number Plate Recognition System
14	1732014	Bensley Justin	Cloud Based Business Intelligence and Analytics on Tobacco Sales
15	1732015	Bhanuprakash. P	Covid-19:Face Mask Detector And Social Distancing Detector
16	1732016	Bharathi Priya P	Smart Campus
17	1732017	Boopesh	Employee Recognition System
18	1732018	Deepak G	Structured Data Transfer from SCC to Analysis Station using gRPC client-server Implementation
19	1732019	Dhanusha R	Designing HFT automation models using analysis of historical trading data

20	1732020	Dharani G	Inferring sentiments from text and speech using multimodal sentiment analysis
21	1732021	Hari Priya	Resume parser
22	1732022	Harinee S	NLP in evaluating Remote Exams
23	1732023	Ishwarya J	Driver Drowsiness Detection System
24	1732024	Jeeva K G	Tiles sales forecasting
25	1732025	Jovitha Veena.P	Ingestion of data using AWS & Advance Reporting Automation of Teradata to Hadoop
26	1732026	Kamesh G	Recommender System for E-commerce
27	1732027	Karthikeyan S	Aws cloud enabled data ingestion and visualization and Conversion of teradata sql into spark sql
28	1732028	Keerthana K	Cloud Data Ingestion and Advanced Reporting
29	1732029	Kishore Balaji	Cell phone usage detection & violation using pose estimation and computer vision in an oil & gas environment
30	1732030	S. Manassa Varshni	Application of Tele Ophthalmology using Chatbots
31	1732031	Manoj Shankar C	Image guided surgery planning and biomechanical analysis
32	1732032	Malavikaa S	KRIYA - A project tracking software and Modelling of infectious disease using Susceptible - Infected - Recovered - Fatal Model
33	1732033	Meghna Shyam Sundar	Building a forecast engine for IT/IoT network
34	1732034	Mridhula S	Property Preservation and Inspection using Computer Vision and Machine Learning Algorithms
35	1732035	Nandhish C	Automation in spinning mill industry and Quality Inspection System
36	1732036	Navaneeth	Breakage analysis in Spinning mill industry and Operator management system
37	1732037	Prakatheeswari	Pulmonary diagnosis and enhanced medical imaging using Artificial Intelligence
38	1732039	Pujithaa. V	User Behaviour Analysis and Feed Personalisation Models
39	1732040	Raghul T	Patient Identification and Processing
40	1732041	Ramkishore Sethuramamoorthy	Building a Knowledge Graph for an IoT network using Resource Graph
41	1732042	Roshli Charumathy R	Thermal Sensing for ADAS and Road Map
42	1732043	Sai Shankar	Movie Recommendation System
43	1732044	Samuel Naveen V	AI Health Assistant

44	1732045	Sheethala M	Advanced Analytics Pipeline and Visualization on Tobacco Sales
45	1732047	Shivanswamynathan.S	Cricket commentary audio classification using deep learning
46	1732048	Shobika R	Financial Fraud Detection using Autoencoder Neural Networks
47	1732049	Subhashini S	Image Processing using Computer Vision for object detection and feature identification
48	1732050	Sudendar S	High Performance Data Pipeline for Next-Gen KLA Macro Inspection Tools
49	1732051	Suhasini.K	Agricultural Crop Detection using Image Processing and Machine Learning Techniques
50	1732052	Suvetha S	Fake product review monitoring and Analysis of combined water supply scheme
51	1732053	Tharaneeshraj C S	Thermal Sensing for Advanced Driver-Assistance Systems(ADAS)
52	1732054	THEJASVIN BM	Gamification of Social Media Users to validate America-In-One Room concepts in Democracy
53	1732055	Varshini K	Condition monitoring of machines based on machine auscultation
54	1732056	Vasanth.P	Automating cricket highlights using neural networks
55	1732057	Vijay Anand V	Chatbot Provider Agency
56	1732058	Vipin Kumar	Early fault detection for auxiliary equipment based on multiple variables
57	1732059	Yoga Sabarish	Credit consumption prediction challenge
58	1732060	Yogapriya H	Edutech
59	1732061	ViswaHarini T N	Designing HFT automation models using big data analysis of historical market data



**SUMMER INTERNSHIP COMPLETION CERTIFICATE**

This is to certify that **Abhishek V (1732001)** completed his internship at Crayon Data Pvt Ltd from **18th May 2020 to 30th September 2020**. His project title is on "**Enhancing Language Translation using Transformers**".

We wish him a lot of success for the future and hope that our paths cross again.

**For Crayon Data India Pvt Ltd**

A handwritten signature in black ink, appearing to read "Aarti R", written over a horizontal line.

**Aarti Ramakrishnan**  
Director

DocuSigned by:  
A handwritten signature in black ink, appearing to read "Abhishek V", enclosed within a rounded rectangular box.  
254F39C5193649D

4/12/2020



Nov 20, 2020.

To Whom it may concern,

Abitha Shree S, pursuing her Fourth Year, M.Sc. Data Science at Coimbatore Institute of Technology is undergoing her Seventh Semester Internship from April 27, 2020 scheduled to be completed on November 30, 2020 at OptiSol Business Solutions Private Limited, Coimbatore with the projects titled "Aristotle Analytics review tool" and "Ergonomics assessment" under the guidance of Karthic Chandran.

Her performance during this internship has been exemplary. She showed good aptitude and motivation to learn new technology stacks quickly and has been a great addition to our team. We wish her all the very best in her future endeavors.

Yours Sincerely,  
For OptiSol Business Solutions Private Limited

A handwritten signature in blue ink, appearing to read "Karthic Chandran".

Karthic Chandran, Director.

**OptiSol Business Solutions Pvt. Ltd.,**

Regd. Office : #128B, Baldi Hi Tech Park, 4th & 5th Floor, ECR, Thiruvanimiyur, Chennai-000041, TN, India. Ph:+91-44-24512200

Email : [info@optisolbusiness.com](mailto:info@optisolbusiness.com)

Web : [www.optisolbusiness.com](http://www.optisolbusiness.com)

## VPODS TECHNOLOGIES Pvt. Ltd

Citizen Inc. ("VENTURE CO")  
350 7 Ave SW, Suite 3400,  
Calgary, AB T2P 3N9

To Whomsoever It May Concern

This is to certify that **Adnan A** (Roll No: 1732003), student at Coimbatore Institute of Technology is doing his internship program with Vpods Technologies Pvt., Ltd., for a project with **Citizen Inc.** He is working on Natural Language Processing. His project based on

"Gamification of Social Media Users to validate America-In-One Room concepts in Democracy" and he has been working hard on completing the project work by March. He is working on projects like Web Scraping, Stance Detection, Hate Speech Detection, and Debate Visualization using Python.

At Vpods, we appreciate his enthusiasm for learning the new topics extremely inquisitive and hardworking, his efforts in working with the team towards the completion of the project.

Sincerely,



Prasanna Kishore  
(HR Manager)  
Vpods Technologies



ACQUIRE | DECIPHER | DELIVER

Date: 16.11.2020

To,

Ms.Aishwarya.R,  
Coimbatore Institute of Technology  
Coimbatore, Tamilnadu

**INTERNSHIP COMPLETION CERTIFICATE**

This is to certify Ms.Aishwarya.R, student of M.Sc.(Data Science) with Registration No: 1732004, has completed her internship with us, from **15<sup>th</sup> May 2020 to 15<sup>th</sup> November 2020**.

As part of her internship, she has done a study on **Property Preservation and Inspection using Computer Vision and Machine Learning Algorithms**. She has also contributed towards automated methods of identification of parts/features through various scripts.

During the tenure with us, we found Ms.Aishwarya.R sincere and result oriented.

We wish Ms.Aishwarya.R all the best for her future endeavours.

Yours Sincerely

**Bhaskar R**  
Director & CEO





Robert Bosch Engineering and  
Business Solutions Private  
Limited - (CIN:  
U75406KA1947PTC093344)  
123, Industrial Layout,  
Hosur Road, Koramangala  
Bengaluru 560095 INDIA  
Tel +91 80 6657-5757  
Fax +91 80 6657-1404  
www.rbeindia.com

**Internship Interim Certificate**

Date: 26.11.2020

This is to certify that **Ajay Balaji (E No: 33725185)** from **Coimbatore Institute of Technology** has carried out an internship on the topic "**Visual Quality Inspection tool**" from 10.08.2020 to till date under the guidance of **Sreetama Das (RBE/EDS)**.

Robert Bosch Engineering and Business Solutions Private Limited.

pki, BOSCH,  
APAC, B, H,  
Bharath.Kakaiah

Bharath Kakaiah  
Human Resources  
RBEI

Digitally signed by pki,  
BOSCH, APAC, B, H,  
Bharath.Kakaiah  
Date: 2020.11.27 15:28:58  
+05'30'

  
**SVASTA NIBHANDA**  
Medical Technologies Private Limited

657, Tristar Towers, Avinashi Road, Coimbatore - 641 037

Date: 20/11/2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Akash R** (Roll no: - 1732006) of MSc Data Science - IV year, from COIMBATORE INSTITUTE OF TECHNOLOGY, Coimbatore has successfully completed his internship in project (Food Calorie Estimation Method In Dietary Assessment) as "Student Intern" . During the project period (24-June-2020 to 20-November-2020) he was sincere and regular to our organization, attending all the phases of the project. We wish him all the best for his future.

Warm Regards,



**Bhuvaneshwari B**  
CGO

Svastanibhanda Medical Technologies Pvt. Ltd  
[www.svastanibhanda.com](http://www.svastanibhanda.com)





### Internship Completion Certificate

This is to certify that Mr. **Anesh P (Reg No: 1732007)** has successfully completed Internship program as Data Science Intern under the guidance of Mohanraj.P The duration of this project was from August 2020 to November 2020 on the project Title "*Product Recommendation for Buyers Market*". During the internship he showed good attitude in learning new technologies and showed eagerness in learning new skill. I hereby certify his work excellent to the best of my knowledge during the tenure

Date: Nov- 30 -2020

Place: Coimbatore

For Smartificia Technologies Private Limited

Mohanraj Polanisamy

Executive Director





Vyakya Technologies Private Limited  
D19, Ramaniyam Marvel  
No 7, Seshadripuram 1<sup>st</sup> main road  
Velachery  
Chennai – 600 042  
CIN - U74999TN2016PTC111020  
GST - 33AAFV5164J1Z5

30-11-2020

Chennai

**To Whomsoever It May Concern**

This is to certify that, **Mr. Arjun Kumaran** pursuing his fourth year, M.Sc. Data Science at **Coimbatore Institute of Technology**, has undergone his seventh semester Internship project at **Vyakya Technologies** from 4<sup>th</sup> May, 2020 to 4<sup>th</sup> November, 2020. His project title is "**Bank Statement Analyser and Automated IXBRL Tagger**". His performance during the course of the project was found to be excellent and committed.

Wishing him all success in his future endeavors.

For Vyakya technologies,

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**JAYENDRAN GS,**

**Co-Founder,**

**Vyakya technologies.**

+91-73388 79519

contactus@vyakya.com

Date:20/11/2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Arunraja D** (Roll no: - 1732009) of MSc Data Science – IV year, from COIMBATORE INSTITUTE OF TECHNOLOGY, Coimbatore has successfully completed his internship project (**Patient Identification And Processing**) as “Student Intern” . During the project period (24-June-2020 to 20-November-2020) he was sincere and regular to our organization, attending all the phases of the project. We wish him all the best for his future.

Authorized Signature,

A handwritten signature in black ink, appearing to read 'Ravikumar S'.

Ravikumar S  
Director





**SUMMER INTERNSHIP COMPLETION CERTIFICATE**

This is to certify that **Ashvin Ravichandran(1732010)** completed his internship at Crayon Data Pvt Ltd from **15th June 2020 to 15th September 2020**. His project title is on **"Improving personalization on product recommendations using Deep learning"**.

We wish him a lot of success for the future and hope that our paths cross again.

For Crayon Data India Pvt Ltd

A handwritten signature in black ink, appearing to read "Aarti R.", with a horizontal line underneath.

**Aarti Ramakrishnan**  
Director

DocuSigned by:  
**Ashvin R**  
F247AF6C0816A66...  
4/12/2020



ACQUIRE | DECIPHER | DELIVER

Date: 16.11.2020

To,

**Ms.Aswathi.V,**  
**Coimbatore Institute of Technology**  
**Coimbatore, Tamilnadu**

**INTERNSHIP COMPLETION CERTIFICATE**

This is to certify Ms.Aswathi.V, student of M.Sc.Data Science with Registration No: 1732011, has completed her internship with us, from **15<sup>th</sup> May 2020 to 15<sup>th</sup> November 2020.**

As part of her internship, she has done a study and analysis on **Agricultural Crop Detection on Drone captured images using Image Processing & Machine Learning Techniques.** She has also contributed towards automated methods of identification of parts/features through various scripts.

During the tenure with us, we found Ms.Aswathi.V sincere and result oriented.

We wish Ms.Aswathi.V all the best for her future endeavours.

Yours Sincerely



**Bhaskar R**  
**Director & CEO**

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**TAKVAVIYA ANALYTICS PRIVATE LIMITED**

*Corporate Office: 1/3, 1st Floor, Pallavi Apartments, Old No: 29, New No: 10,  
1st Main Road, R.A.Puram, Chennai - 600028*

*Registered Office: 39/19, III Floor, Aspen Court, VI Main Road, R.A.Puram, Chennai-600028*



Jungroo Learning (P) Ltd,  
Startup Hubs Unit 3, Third Floor, No.334, 27th Main Road,  
1st Sector, HSR Layout, Bangalore-560102.

November 30<sup>th</sup>, 2020  
Bangalore

### Internship Completion Certificate

#### **TO WHOMEVER IT MAY CONCERN**

This is to confirm that Baraneedharan. N. M, (Roll No: 1732012) pursuing his M.Sc. Data Science program at Coimbatore Institute of Technology, has successfully completed his internship program with us from 16<sup>th</sup> August 2020 to 30<sup>th</sup> November 2020 at Jungroo Learning, Bangalore.

As a part of Internship, he was working with our team, under the guidance of Mr. Cibe Hariharan, Chief Technical Officer and Co-Founder, on the project "Automating Online Proctoring using AI".

During his internship period with us, he was found punctual, hard working and his conduct was good.

Thanking you,

For Jungroo Learning (P) Ltd,

Sethuraman T A  
Co-Founder



Robert Bosch Engineering and  
Business Solutions Private  
Limited - (CIN)  
U72400KA1997P1C023184  
123, Industrial Layout  
Hosur Road, Koramangala  
Bengaluru 560095 INDIA  
Tel: +91 80 8657-5757  
Fax: +91 80 8657-1404  
www.rbebs.com

Internship Interim Certificate

Date: 26.11.2020

This is to certify that **Bharath M (E No: 33725194)** from **Coimbatore Institute of Technology, Coimbatore** has carried out an internship on the topic **"Automatic Number plate recognition system"** from **10.06.2020** to till date under the guidance of **Prerna Kathiresan Vasagam (RBE/EDS2)**.

Robert Bosch Engineering and Business Solutions Private Limited.

pki, BOSCH,  
APAC, B, H,  
Bharath.Kakajiah

Digitally signed by pki,  
BOSCH, APAC, B, H,  
Bharath.Kakajiah  
Date: 2020.11.27  
15:29:19 +05'30'

Bharath Kakajiah  
Human Resources  
RBEI



Date:4<sup>th</sup> December, 2020

**TO WHOM IT MAY CONCERN**

This is to certify that **Polasani BhanuPrakash Reddy (Roll No: 1732015)**, pursuing his Fourth Year, M.Sc Data Science at Coimbatore Institute of Technology, Coimbatore is undergoing his Seventh Semester Internship from 21<sup>st</sup> August, 2020 scheduled to be completed on 31<sup>st</sup> December, 2020 at **Pivox Labs Pvt Ltd, Guntur**, with the project titled "Covid-19:Face Mask Detector And Social Distancing Detector" under the guidance of **Pavan Kalava**.

His performance during the course of the project was found to be good. It was also observed that he was disciplined and organized with his work.

We wish him all the very best in his future endeavors.

Yours Sincerely,

**For Pivox Labs Pvt Ltd.,**

*pavan kalava*

**Pavan Kalava**  
**(Director)**

25 November,2020

Certificate of Internship

This is to certify that **Bharathi Priya. P** , student of **Coimbatore Institute of Technology** studying **M.Sc Data Science (4<sup>th</sup> year)** has completed her internship at **Nitroware Technologies Pvt Ltd**, Coimbatore worked for a period of **5 months from 7<sup>th</sup> July 2020 to 25<sup>th</sup> November 2020** with the project titled **Smart Campus**. Her performance during the course of the project was found to be good.

With Regards,.

HR department,

Nitroware Technologies Pvt Ltd.,



Authority signature

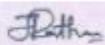
TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr D. BOOPESH, student of M.Sc Data Science with Register No:1732017 has completed his internship on the title Employee Recognition System from June 2020 to November 2020.

He was an active of the project and played a constructive role on his project. During this project period with us, we found his conduct to be good.

We wish Mr D. BOOPESH all the best for his future endeavours.

Sincerely



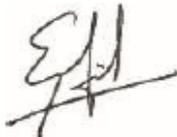
J. Rathika  
Assistant Professor  
Department of Data Science  
Coimbatore Institute of Technology  
Coimbatore.14.

December 2, 2020

### To Whom It May Concern

This is to certify that **Deepak G**, pursuing his Fourth Year, M.Sc. Data Science at Coimbatore Institute of Technology is undergoing his Seventh Semester internship from May 18<sup>th</sup>, 2020 scheduled to be completed on December 29<sup>th</sup>, 2020 at **KLA-Tencor Software India Pvt. Ltd**, Chennai with the project titled "Structured Data Transfer from SCC to Analysis Station using gRPC client-server Implementation" under the guidance of **Mr. Pardhasaradhi Potta**, Manager, BBP. His performance during the project was found to be resourceful, energetic and he is a good team player. We wish him success in his future endeavors.

Sincerely



**Enfil Jeyaraj**  
**Head HRBP, India**

Axlware Technologies Pvt Ltd  
Company Reg No: U74999KA2018PTC111448  
No.33, K.K. Complex, Velachery main Road,  
Little Mount, Saidapet, Chennai-60015  
Mob: +91 7010166930  
Email: [contact@axlware.com](mailto:contact@axlware.com)

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Nov 13<sup>th</sup>, 2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Dhanusha R has done her internship program at Axlware Technologies Private Ltd from 20<sup>th</sup> May to 13<sup>th</sup> Nov 2020.

During her internship, she worked on the project "Designing HFT automation models using analysis of historical trading data", under the guidance of Mr. Ravishankar Krishnamurthy. She along with the team was able to parse market data, analyze/plot the data and come up with a simulation model for HFT algorithm.

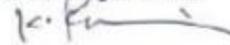
The internship on evaluation fulfills all the stated criteria and student's findings are her original work. During the internship she demonstrated good analyzing/coding skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time.

I hereby certify her work satisfactory to the best of my knowledge.

We wish her all the best for her future endeavors.

Axlware Technologies Pvt. Ltd.  
No. 33, K. K. Complex,  
Velachery Main Road, Little Mount,  
Saidapet, Chennai - 600 015.

For Axlware Technologies Pvt. Ltd.



Director

**Nextec**  
Infotech Pvt Ltd

97916 27740

Arjunnnextecq@gmail.com

www.nextecq.co.in

Dear,

**G.Dharani** (Coimbatore institute of Technology, Roll no: 1732020) .She has succesfully completed the internship work "**Inferring sentiments from text and speech using multimodal sentiment analysis**" with nextecq infotech from Aug 10 to Nov 30 2020



*S. Praveen S.*

Signature  
praveen s

Address: 2/406, Savadipalayam pudur, Nanjai uthukuli (po), Erode-638104

## Internship Initiative



### Internship Experience and Performance Letter

This is to certify that Hari Priya R. of coimbatore institute of technology was working as a full-time Intern with Affiliated Recruiters as Trainee – software Engineer from 15<sup>th</sup> July 2020 to 30<sup>th</sup> November 2020.

During the internship, we found Hari Priya R. to be a knowledgeable and result oriented with theoretical and practical understanding of work requirements.

Overall, Haripriya performance was Satisfactory.

Warm regards,

Saranya Rajan  
Operations Head – Software Development Center  
Affiliated Recruiters



H-50/A, Yamuna Street, Kalakshetra colony, Besant Nagar, Chennai-600  
090. 112/1 Broadway, 3rd Floor Nafees Manzil, Chennai - 600108.  
www.siamcomputing.com, +91-044-43009964 / +91-9840905253

**2nd November 2020**

**INTERNSHIP COMPLETION CERTIFICATE**

**To Whomsoever It May Concern**

This letter is to certify that **Ms. HARINEE SANKARAN** has successfully completed her internship with Siam Computing.

During the course of her internship she worked with the Product Development Team, particularly with Machine Learning. She worked on the project titled "NLP in evaluating remote exams". She was working under the guidance of **Mr. Kevin Karun** (Project Manager) and **Mr. MURUGESAPANDIAN** (CTO) during the span, and was found to be sincere and hardworking. Her internship tenure was from **17th June 2020 to 31st October 2020**.

Her association with us was very fruitful and we wish her the best for her future endeavors.

For Siam Computing,

A handwritten signature in black ink, appearing to read "Anitha M.", written over a light gray background.

**Ms. ANITHA MADHIVANAN**  
HR Executive



**Nexteco**  
Infotech Pvt Ltd

97916 27740  
Arjunnnextecq@gmail.com  
www.nextecq.co.in

Dear,

**Ishwarya J** (Coimbatore institute of Technology, Roll no:1732023) .She has successfully completed the internship work "**Driver Drowsiness Detection**" with nextecq infotech from Aug 10 to Nov 30 2020



*S. Praveen S.*

Signature  
praveen s

Address: 2/406, Savadipalayam pudur, Nanjai: uthukuli (po), Erode-638104



## Internship Offer Letter

8-Aug-2020

Dear Jeeva,

Welcome to Neenopal!

We are pleased to offer you an appointment in Neenopal Intelligent Solutions Private Limited with following terms and conditions.

*Commencement Date:* Aug 11, 2020

*Duration:* 4 Months

*Designation:* Data Scientist Intern

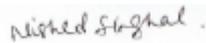
*Compensation Structure:* stipend ₹ **INR 15,000 per month** (7.5% or 10% TDS may be deducted, as applicable, based on Income Tax Rules).

*\*Terms & Conditions:* All employees are mandatorily required to have their own laptops for working

Due to current Covid situation, this will be a **Work from Home Internship** until any further communication on the subject.

Congratulations and look forward to working with you.

Yours sincerely,  
For Neenopal Intelligent Solutions Private Limited.



Nished Singhal  
Director



MResult Services Private Limited

### Internship Certificate

This is to certify that **Ms. Jovita Veena. P (1732025)** pursuing M.Sc. Data Science – IV year at Coimbatore Institute of Technology, is undergoing her seventh semester Internship from 1<sup>st</sup> June 2020, scheduled to complete on 31<sup>st</sup> December 2020 at **MResult Services Private Limited, Bangalore** with the project titles **Ingestion of Data using AWS & Advance Reporting and Automation of Teradata to Hadoop** under the guidance of **Mr. V Mathialagan**, Decision Science Practice Head. During this internship she was sincere, consistent and her behavior was found to be satisfactory.

We wish her success for her future endeavors.



For MResult Services

Megha Arora

HR Manager



### Internship Completion Certificate

This is to certify that Mr. **Kamesh G (Reg No: 1732026)** has successfully completed internship program as Data Science Intern under the guidance of **Mohanraj.P**. The duration of this project was from August 2020 to November 2020 for the project title "*Recommender System for E-commerce*". During the internship he showed good attitude in learning new technologies and showed eagerness in completion on client requirements and able to demonstrate good teamwork skill. I hereby certify his work according to the best of my knowledge during the tenure.

Date: Nov- 30 -2020

Place: Coimbatore

For Smartificia Technologies Private Limited

Mohanraj Palanisamy  
Executive Director



MResult Services Private Limited

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### Internship Certificate

This is to certify that **Mr. Karthikeyan S (1732027)** pursuing M.Sc. Data Science – IV year at Coimbatore Institute of Technology, is undergoing his seventh semester Internship from 1<sup>st</sup> June 2020, scheduled to complete on 31<sup>st</sup> December 2020 at **MResult Services Private Limited, Bangalore** with the project titles **AWS Cloud Enabled Data Ingestion and Visualization and Conversion of Teradata SQL into Spark SQL** under the guidance of **Mr. V Mathialagan**, Decision Science Practice Head. During this internship he was sincere, consistent and his behavior was found to be satisfactory.

We wish him success for his future endeavors.

  
Signature

For MResult Services

Megha Arora

HR Manager

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MResult Services Private Limited

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### Internship Certificate

This is to certify that **Ms. Keerthana K (1732028)** pursuing M.Sc. Data Science – IV year at Coimbatore Institute of Technology, is undergoing her seventh semester Internship from 1<sup>st</sup> June 2020, scheduled to complete on 31<sup>th</sup> December 2020 at **MResult Services Private Limited, Bangalore** with the project title **Cloud Data Ingestion and Advanced Reporting** under the guidance of **Mr. V Mathialagan**, Decision Science Practice Head. During this internship she was sincere, consistent and her behavior was found to be satisfactory.

We wish her success for her future endeavors.



For MResult Services

Megha Arora

HR Manager

---

05<sup>th</sup> December 2020

**TO WHOMSOEVER IT MAY CONCERN**

**Kishore Balaji S (1732029)** while pursuing his Fourth Year M.Sc. Data Science at Coimbatore Institute of Technology, Coimbatore completed his internship in Forge (the branded incubation enterprise launched by Coimbatore Innovation and Business Incubator, a Section-25 company registered under The Companies Act, 1956) as a Program Intern, from 15th June 2020 to 04th December 2020

During the internship, Kishore Balaji was involved in the following activities:

- Design and development for Flutura in ONGC Environment (Cell phone usage detection & Violation using Pose Estimation and Computer Vision in an Oil and Gas Environment)
- Supported in development of Curriculum/Framework for a B. Tech Artificial Intelligence and Data Science program with Industry Mentors and Academic Experts
- Worked in the design and development of Minimum Useable Prototype with respect to Data Science and Machine Learning in ProtoSem, Innovation Fellowship Program.

We wish him the very best in his future endeavors.

**Vishwanathan (Vish) Sahasranamam**

Chief Executive Officer

## ARAVIND EYE HOSPITALS & POSTGRADUATE INSTITUTE OF OPHTHALMOLOGY

Recognized Institute  
Affiliated to Dr. MGR Medical University

### MADURAI

1, Anna Nagar, Madurai 625 029, Tamil Nadu, India  
Phone: 0457-435 5100; Fax: 01-452-153-0964

PROFESSOR: Dr. R. Rajalingam, DNB, M.D., F.I.M.S.

Chief Medical Officer: Dr. R. Kim, DNB, DNB,

Head of the Department: Dr. N. Venkataraj Prasad, DNB, FRCS

### ARAVIND EYE CARE SYSTEM

Chairman	Dr. S. S. Ramakrishna
Dr. Dhanraj - Chairman	Dr. J. Jeyalingam
Dr. R. S. Ravindranath	Dr. S. S. Ramakrishna
Chairman - Chennai	Dr. S. S. Ramakrishna
Dr. Dhanraj - Chairman	Dr. S. S. Ramakrishna
Dr. R. N. Venkataraj Prasad	Dr. S. S. Ramakrishna
Director - Chennai	Dr. S. S. Ramakrishna
Dr. G. Raghavendra	Dr. S. S. Ramakrishna
Dr. M. Srinivasan	Dr. S. S. Ramakrishna
Dr. S. S. Ramakrishna	Dr. S. S. Ramakrishna
Dr. S. S. Ramakrishna	Dr. S. S. Ramakrishna
Dr. S. S. Ramakrishna	Dr. S. S. Ramakrishna
Dr. S. S. Ramakrishna	Dr. S. S. Ramakrishna

3<sup>rd</sup> December 2020

### INTERNSHIP REPORT

**S. Manasa Varshni** (Roll No: 1732030) from Coimbatore Institute of Technology joined Aravind Eye Hospital and Postgraduate Institute of Ophthalmology, Madurai for an **Internship** as a **Data Scientist** for a period of 6 months from **1<sup>st</sup> June to 30<sup>th</sup> November 2020**. She underwent orientation program to get to know the functioning of the various departments in the hospital - patient registration, patient care areas, and clinical and non-clinical function areas. She observed the large volume patient care service of the institution. She has been exposed to Electronic Medical Record (EMR) system of the hospital and how the in-house software databases were maintained.

As an Intern, she was involved in a study which attempts to understand the utility of virtual assistants such as chatbots in ophthalmology and she was assigned to develop chatbot for different subjects like Diabetic Retinopathy, Retinopathy of Prematurity etc., to create awareness about these conditions for the public. This assignment helped her to improve her skills to learn a lot about the development of virtual assistants and their end to end deployment. She was also involved in field work in which she interacted with the patients on the use of Chatbot. During this part, she was able to overcome the challenge of language barriers, and she developed the chatbot in Tamil language also. She felt this part of her internship as more challenging as she had to train the chatbot to understand Tamil language. During this time, she learned how to manage a large corpus of data, how to build word vectors and use specific pipelines to build virtual assistants for different languages.

This six months internship at Aravind helped Ms. Manasa to get a better understanding of how to combine domain knowledge along with technical skills. The work experiences she encountered during the internship allowed her to develop her technical skills as well as her soft skills such as public speaking skills. I wish her the best for her future endeavours.



Chief Medical Officer, Aravind Eye Hospital - Madurai.

Director - IT Systems, Aravind Eye Care System.

E-mail - [kim@aravind.org](mailto:kim@aravind.org)

## INTERNSHIP CERTIFICATE

This is to certify that **Manoj Shankar C** (Roll No. 1732031) M.Sc Data Science student of CIT Coimbatore, has interned with Healthcare Technology Innovation Centre (HTIC), IIT Madras from 1<sup>st</sup> June 2020 to 30<sup>th</sup> November 2020.

During the internship, Manoj worked on the development project titled "Image guided surgery planning and biomechanical analysis". This was an explorative and ambitious research project in the nascent field of surgical data science. Manoj had performed literature survey to map the technical aspects of biomechanical analysis from medical images in the context of corrective surgery for spine, and identified multiple available tools and their features and shortcomings. Towards building a machine learning system for recognizing anatomical defects and trauma signs, Manoj worked on public datasets of spine to train a deep learning model in PyTorch based on pointnet architecture, to take segmentations of spine, model them into mesh and create point cloud using the vertices of the mesh. Manoj has also made considerable progress in geometric modeling using centerlines for topological feature identification in bony anatomy. A deep learning model for whole spine damage recognition has also been built by Manoj during the internship.

The tools and techniques, literature and know-how explored by Manoj during the internship will be put to use in immediately following research projects in surgical guidance, image and structural analysis and automation of surgical planning. Although executed in remote mode, Manoj was able to make considerable progress and provide important leads for further research in the area. We appreciate his dedicated involvement in the work, and wish him the best for his future endeavours.



**Keerthi Ram**

Lead Engineer, Imaging, HTIC





REDBLACKTREE

**RedBlackTree Technologies Pvt. Ltd.**

#8 Lalitha Nagar 1<sup>st</sup> Street, Santhome, Chennai 600 004, India. Phone: 91-44-43533706 Email: [care@redblacktree.com](mailto:care@redblacktree.com)

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Malavika Suresh Kumar was a Software Engineer Intern of RedBlackTree from 27th May 2020 to 31st August 2020.

She was an active member of the team and played a constructive role as a software engineer in the project titled 'Kriya'. During the internship period with us, we found her conduct to be good.

We wish her the very best with her future endeavors.

Sincerely,

Sambhu Lakshmanan  
Managing Director  
RedBlackTree Technologies Pvt Ltd



**VPODS Inc.**

Internship Progress Certificate

**To Whomsoever it may concern**

This is to certify that Meghna Shyam Sundar (Roll #: 1732033) is doing her internship in our company. Her internship work is based on machine learning as applied to IoT environments. The title of her work is "Building a forecast engine for IT/IoT network" and she has been working hard on completing the project work in December. Meghna also worked on a side Frontend project using Angular. At VPODS, we appreciate her enthusiasm for learning new topics and her efforts in working with the team towards the completion of the project.

Sincerely,

A handwritten signature in black ink, appearing to read 'Krishnan Subramanian', with the date '24th Nov 2020' written below it.

**Krishnan Subramanian**  
CTO, VPODS Inc



ACQUIRE | DECIPHER | DELIVER

Date: 16.11.2020

To,

**Ms.Mridhula.S,**

**Coimbatore Institute of Technology**

**Coimbatore, Tamilnadu**

**INTERNSHIP COMPLETION CERTIFICATE**

This is to certify Ms.Mridhula.S, student of M.Sc,Data Science with Registration No: 1732034, has completed her internship with us, from 15<sup>th</sup> May 2020 to 15<sup>th</sup> November 2020.

As part of her internship, she has done a study on **Property Preservation and Inspection using Computer Vision and Machine Learning Algorithms**. She has also contributed towards automated methods of identification of parts/features through various scripts.

During the tenure with us, we found Ms.Mridhula.S sincere and result oriented.

We wish Ms.Mridhula.S all the best for her future endeavours.

Yours Sincerely

**Bhaskar R**  
**Director & CEO**



---

**TARVAVIYA ANALYTICS PRIVATE LIMITED**

*Corporate Office: 1/3, 1st Floor, Pallavi Apartments, Old No: 29, New No: 10,  
1st Main Road, R.A.Puram, Chennai - 600028*

*Registered Office: 39/19, III Floor, Aspen Court, VI Main Road, R.A.Puram, Chennai-600028*



**PINTER  
GROUP**

PFA

**PINTER FA.NI ASIA PRIVATE LIMITED**

Regd. Office - 3, Gururamy Nagar, Thangapandhi Road,  
Pocanadu, Coimbatore - 641 004. Phone : +91 422 4577 567  
Works - 347, Thiruvattar Street, Kaludhataru, Wilshire Park,  
Old Mills Post, Coimbatore - 641 029, INDIA. Phone : +91 422 2642 964  
E-mail : info@pinter.asia  
[www.pintergroup.net](http://www.pintergroup.net)

Date : 01.12.2020

### Internship Interim Certificate

This is to certify that **Mr.Nandhish C (1732035)** from **Coimbatore Institute of Technology, Coimbatore** has carried out an internship on the topic "**Automation in Spinning Mill Industry and Quality Inspection System**" from 25.06.2020 to till date under the guidance of **Ms.S Meenakshi Ammal (Manager-Systems)**.

For Pinter Fa.Ni Asia Private Limited

R Soundararejan  
Managing Director



**PINTER  
GROUP**

PFA

**PINTER FA.NI ASIA PRIVATE LIMITED**

Regd. Office : 9, Gurusamy Nagar, Thangarpanzhi Road,  
Palameddi, Coimbatore - 541 004. Phone : +91 422 4979 567  
Works : 347, Thiruvalluvar Street, Kaattuchallem, Welakher Pinnu,  
ON Mills Post, Coimbatore - 641 029, INDIA. Phone : +91 422 2642 964  
E-mail : info@pinters.in  
www.pintergroup.net

Date : 01.12.2020

### Internship Interim Certificate

This is to certify that **Mr.Navaneeth R (1732036)** from **Coimbatore Institute of Technology, Coimbatore** has carried out an internship on the topic "**Breakage Analysis in Spinning Mills Industry and Operation Management System**" from 25.06.2020 to till date under the guidance of **Ms.S Meenakshi Ammal (Manager-Systems)**.

For Pinter Fa.Ni Asia Private Limited

R Soundararajan  
Managing Director



zBliss Technologies Pvt Ltd  
Research Park [contact@zbliss.com](mailto:contact@zbliss.com)  
+91 44 4356 9584

[www.zbliss.com](http://www.zbliss.com) HTIC, 5C, 5th Floor, IIT Madras  
Kanagam Road, Taramani, Chennai 600113

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Nov 08, 2020

### Certificate of Internship

Prakatheeswari.S.R, M.Sc Data Science student of Coimbatore Institute of technology, has completed her Internship Program in our company, zBliss technologies Private Limited, from May 01, 2020, to October 31, 2020, for six months. During her internship, she researched on latest Artificial Intelligence techniques and methods in Healthcare using Clinical and Radiology data sets. She worked with our team to develop AI software modules.

We wish her further success.

Jayakanth S. Kesan Managing Director

  
Nov 03, 2020



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CIN: U72900TN2015PTC10128



TRELL EXPERIENCES PRIVATE LIMITED  
www.trell.co | hello@trell.in  
+91 9833370783

### Internship Interim Certificate

Date: 27-Nov-20

To whomsoever it may concern,

This is to certify that **Pujithaa Vijayanand (1732039)** from **Coimbatore Institute of Technology** has carried out an internship on the topic "**User Behaviour Analysis and Feed Personalization Models**" from **22-Jul-20** to till date under the guidance of **Mr. Abhay Kumar (Data Science Engineer)** at Trell Experiences Private Limited, Bangalore.

Trell Experiences Pvt. Ltd.

**Pulkit Agrawal**  
Director

**Corporate Office Address:**  
No. 579/B, RT Square, 3rd Floor, 1st Main Rd,  
Santhosapuram, Sector 6, HSR Layout,  
Bangalore, Karnataka 560102

**Reg. Office Address:**  
501, A-Wing, Maraji Conpd,  
IT Power AS Marg, Vikhroli W,  
Mumbai - 400076

GSTIN: 29AAFC1922AL2X PAN: AAFC1922AL CIN: U78999MH000597C287303

**SVASTA NIBHANDA**  
Medical Technologies Private Limited

657, Tristar Towers, Avinashi Road, Coimbatore - 641 037

Date: 20/11/2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Raghul T** (Roll no: - 1732040) of MSc Data Science – IV year, from COIMBATORE INSTITUTE OF TECHNOLOGY, Coimbatore has successfully completed his internship in project (**HealthCare Assistant – Patient Identification And Processing, Interactive Scheduling Assistant**) as “Student Intern”. During the project period (24-June-2020 to 20-November-2020) he was sincere and regular to our organization, attending all the phases of the project. We wish him all the best for his future.

Warm Regards,



**Bhuvaneshwari B**  
CGO

Svastanibhanda Medical Technologies Pvt. Ltd  
[www.svastanibhanda.com](http://www.svastanibhanda.com)





**VPODS Inc.**

Internship Progress Certificate

**To Whomsoever it may concern**

This is to certify that Ramkishore Sethuramamoorthy (Roll #: 1732041) is doing his internship in our company. His internship work is based on machine learning as applied to IoT environments. The title of his work is "Building a Knowledge Graph for an IT/IoT network using Resource Graph" and he has been working hard on completing the project work in December. Ramkishore also worked on a side Frontend project using Angular. At VPODS, we appreciate his enthusiasm for learning new topics and his efforts in working with the team towards the completion of the project.

Sincerely,

**Krishnan Subramanian**

*CTO, VPODS Inc*

---

Internship Interim Certificate

Date: 01.12.2020

This is to Certify that Roshli Charumathy R(Roll No: 1732042) from **Coimbatore Institute of Technology, Coimbatore** has carried out an internship on the topic "**Thermal Sensing for ADAS and Roadmap**" from 01.06.2020 to 30.11.2020 under the guidance of **Balaji Swaminathan**.

Sincerely,

Iyavaran Manivannan, Development Manager, DataCaliper LLC



**MOCERO HEALTH SOLUTIONS**

Incubated at  IIT Madras-HTIC MedTech Incubator (MTI)

**Certificate of Internship**

**To whomever it may concern**

This is to certify that **Samuel Naveen V (Reg. No: 1732044)** from **Coimbatore Institute of Technology** pursuing **MSc Data Science fourth year** has successfully completed **six months** of internship program from **May-2020 to November-2020** at Mocero Health Solutions.

During the internship, Samuel Naveen V has worked on the project **AI Health Assistant** for our products.

During the internship, Samuel was a quick learner and a great team player with an eagerness to contribute. We wish him good luck for all our future endeavours and look forward to working with him again in the future.

Warm Regards,

For **Mocero Health Solutions**,

**Palaniappan N**

Co-founder and CEO.



www.thorogood.com  
info@thorogood.com

**Bangalore**  
ACR Towers  
2nd Floor  
32 Residency Road  
Bangalore 560 025  
Tel: +91 (0) 80 4123 3700  
Fax: +91 (0) 80 4123 3800

**London**  
Tel: +44 (0) 20 8231 0800  
**New York**  
Tel: +1 877 905 5010  
**Philadelphia**  
Tel: +1 877 905 5010  
**Singapore**  
Tel: +65 9450 5329

**THOROGOOD®**

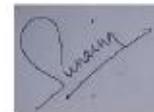
30 November 2020

Bangalore

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Sheethala M (1732045)**, pursuing her fourth year in M.Sc. Data Science at Coimbatore Institute of Technology, Coimbatore has undergone her seventh semester Internship from June 1<sup>st</sup>, 2020 till November 30<sup>th</sup>, 2020 at **Thorogood Associates India Private Limited, Bangalore** with the project title **Advanced Analytics Pipeline and Visualization on Tobacco Sales** under the guidance of **Ms. Sunaina Srivastava**, Business Intelligence and Analytics Consultant. During this period of her internship, she was sincere, consistent, and particularly strong in analytical skills. Her behaviour was found to be satisfactory.

We wish her success for her future endeavours.



**Ms. Sunaina Srivastava,**  
Business Intelligence and Analytics Consultant,  
Thorogood Associates India Private Ltd, Bangalore

Thorogood Associates India Pvt Ltd  
Registered Number: U72900KA2004PTC070740  
Registered Address: Unit 201, ACR Towers, No 32, Residency Road  
Bangalore, Karnataka, India 560025  
Country of registration: India

December 5th 2020

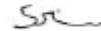
**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that project entitled **Cricket Commentary Audio Classification using Deep Learning** has been carried out by Mr. Shivanswamynathan S (Reg. No: 1732047), pursuing M.Sc. Data Science (IV year) in Coimbatore Institute of Technology at emTarang Techlabs Private Limited. During his internship (July 1st 2020 to November 30th 2020), he was punctual, hardworking and inquisitive.

Wishing him a great success in future endeavors.

Thanking you

From,



emTarang TechLabs Private Limited

Dear,

**Shobika R** (Coimbatore Institute of Technology, Roll no:1732048) .She has successfully completed the internship work "**Financial fraud detection using auto encoder neural networks**" with nextecq infotech from Aug 10 to Nov 30 2020



*S. Praveen S.*

Signature  
praveen s



ACQUIRE | DECIPHER | DELIVER

Date: 16.11.2020

To,

**Ms.Subhashini.S,**  
**Coimbatore Institute of Technology**  
**Coimbatore, Tamilnadu**

**INTERNSHIP COMPLETION CERTIFICATE**

This is to certify Ms.Subhashini.S, student of M.Sc,Data Science with Registration No: 1732049, has completed her internship with us, from 15<sup>th</sup> May 2020 to 15<sup>th</sup> November 2020.

As part of her internship, she has done an analysis on **Image Processing using Computer Vision for object detection and feature identification for varied applications**. She has also contributed towards automated methods of identification of parts/features through various scripts.

During the tenure with us, we found Ms.Subhashini.S sincere and result oriented.

We wish Ms.Subhashini.S all the best for her future endeavours.

Yours Sincerely



**Bhaskar R**  
**Director & CEO**

---

**TAKVAVIYA ANALYTICS PRIVATE LIMITED**

*Corporate Office: 1/3, 1st Floor, Pallavi Apartments, Old No: 29, New No: 10,  
1st Main Road, R.A.Puram, Chennai - 600028*

*Registered Office: 39/19, III Floor, Aspen Court, VI Main Road, R.A.Puram, Chennai-600028*

December 2, 2020

To Whom It May Concern

This is to certify that Suender S, pursuing his Fourth Year, M.Sc. Data Science at Coimbatore Institute of Technology is undergoing his Seventh Semester internship from May 18<sup>th</sup>, 2020 scheduled to be completed on December 11<sup>th</sup>, 2020 at KLA-Tencor Software India Pvt. Ltd., Chennai with the project titled High Performance Data Pipeline for Next-Gen KLA Macro Inspection Tools under the guidance of Mr. Karthik Mahalingam, Manager, SWIFT Engineering. His performance during the project was found to be resourceful, energetic and he is a good team player. We wish him success in his future endeavors.

Sincerely



Entri Jayaraj  
Head HRBP, India



ACQUIRE | DECIPHER | DELIVER

Date: 16.11.2020

To,

**Ms.Suhasini.K,**  
Coimbatore Institute of Technology  
Coimbatore, Tamilnadu

**INTERNSHIP COMPLETION CERTIFICATE**

This is to certify Ms.Suhasini.K, student of M.Sc.Data Science with Registration No: 1732051, has completed her internship with us, from **15<sup>th</sup> May 2020 to 15<sup>th</sup> November 2020.**

As part of her internship, she has done a study and analysis on **Agricultural Crop Detection using Image Processing & Machine Learning Techniques.** She has also contributed towards automated methods of identification of parts/features through various scripts.

During the tenure with us, we found Ms.Suhasini.K sincere and result oriented.

We wish Ms.Suhasini.K all the best for her future endeavours.

Yours Sincerely

**Bhaskar R**  
Director & CEO



---

**TAKVAVIYA ANALYTICS PRIVATE LIMITED**

Corporate Office: 1/3, 1st Floor, Pallavi Apartments, Old No: 29, New No: 10,  
1st Main Road, R.A.Puram, Chennai - 600028

Registered Office: 39/19, III Floor, Aspen Court, VI Main Road, R.A.Puram, Chennai-600028



TAMIL NADU WATER SUPPLY AND DRAINAGE BOARD  
Phone No. 0422-2512180, Division Code 201,  
E.mail: [gepillurcbe@gmail.com](mailto:gepillurcbe@gmail.com)



Internship Completion Certificate

We are glad to inform that Ms.S.Suvetha, Student of IV year M.Sc. Data science from Coimbatore Institute of Technology has successfully completed her internship at TWAD Board from 15<sup>th</sup> August,2020 to 30<sup>th</sup> November,2020. During her internship, She researched on Combined Water Supply Schemes and also worked in latest Natural language processing techniques and methods in Amazon products review data set.

Her association with TWAD was very fruitful and we wish her all the best in future endeavors.



*S.V. Johnson*  
13/12/2020  
Executive Engineer, TWAD Board  
Maint. Div. (Pillar), Coimbatore-4  
Er.S.V.Johnson.M.E,  
Executive Engineer, TWAD Board,  
Maintenance Division(Pillar),  
Coimbatore.

Internship Interim Certificate

Date: 01.12.2020

This is to Certify that Tharaneeshra] Shanmugham (Roll No: 1732053) from **Coimbatore Institute of Technology, Coimbatore** has carried out an internship on the topic "**Thermal Sensing for ADAS and Roadmap**" from 01.06.2020 to 30.11.2020 under the guidance of **Balaji Swaminathan**.

Sincerely,

Ilavarasan Manivannan, Development Manager, DataCaliper LLC

## VPODS TECHNOLOGIES Pvt. Ltd

Date: December 1<sup>st</sup>,2020

Citizen Inc. ("VENTURE CO")  
350 7 Ave SW, Suite 3400,  
Calgary, AB T2P 3N9

To Whomsoever It May Concern

This is to certify that **Thejasvin.B.M** (Roll No: 1732054), student at Coimbatore Institute of Technology is doing his internship program with Vpods Technologies Pvt., Ltd., for a project with **Citizen Inc.** He is working on Natural Language Processing for his project based on "Gamification of Social Media Users to validate America-In-One Room concepts in Democracy" and he has been working hard on completing the project by March. He is working on projects like Profanity Check, Fake news Checking, Debate Summarization and Similarity check using Python.

At Vpods, we appreciate his enthusiasm for learning the new topics extremely inquisitive and hardworking and his efforts in working with the team towards the completion of the project.

Sincerely,



HR Manager Vpods  
Technologies



Robert Bosch Engineering and  
Business Solutions Private  
Limited - ICIN:  
U72400KAL597PTO0331541  
123, Industrial Layout,  
Hosur Road, Koramangala  
Bengaluru 560095 INDIA  
Tel: +91 80 6657-5757  
Fax: +91 80 6657-1404  
www.rbeindia.com

**Internship Interim Certificate**

Date: 26.11.2020

This is to certify that **K Varshini (E No: 33725201)** from **Coimbatore Institute of Technology** has carried out an internship on the topic "**condition monitoring of machines using machine auscultation, Named entity recognition and document summarization**" from 10.08.2020 to till date under the guidance of **Phani Nandula (RBE/EDS)**.

Robert Bosch Engineering and Business Solutions Private Limited.

pki, BOSCH, APAC, B,  
H, Bharath.Kakaiah

Digitally signed by pki, BOSCH,  
APAC, B, H, Bharath.Kakaiah  
Date: 2020.11.27 15:29:09  
+05'30'

Bharath Kakaiah  
Human Resources  
RBEI

#411, 10a Main, 23 <sup>rd</sup> Cross, 7 <sup>th</sup> Sector
HSR Layout, Bengaluru, Karnataka
PIN – 560 102, INDIA
+91-80-41750707
<a href="http://www.emtarang.com">www.emtarang.com</a>
CIN: U72900KA2010PTC055620

December 5<sup>th</sup> 2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that project entitled **Automating Cricket Highlights using Neural Networks** has been carried out by Mr.Vasanth P (Reg. No: 1732056), pursuing M.Sc. Data Science (IV year) in Coimbatore Institute of Technology at emTarang Techlabs Private Limited. During his internship (July 1<sup>st</sup> 2020 to November 30<sup>th</sup> 2020), he was punctual, hardworking and inquisitive.

Wishing him a great success in future endeavors.

Thanking you

From,



emTarang TechLabs Private Limited

# CERTIFICATE OF PROGRESS



THIS CERTIFICATE PROUDLY PRESENTED TO

**Vijay Anand V**  
[1732057]

For Successfully progressing above 85% of his work on "Chatbot Provider Agency" from 01-07-2020 to till date.

**26-11-2020**

DATE

During the Review/Testing period the performance of the trainee and his work was found to be Good.

SIGNATURE



**MADURAI  
SOFTWARES**

**yoga sabarish**

to me ▾

----- Forwarded message -----

**From:** Kalleppan Subramaniam, Senthil Kumar <[senthil.kalleppan\\_subramaniam@siemens.com](mailto:senthil.kalleppan_subramaniam@siemens.com)>

**Date:** Tue, Dec 8, 2020 at 6:06 PM

**Subject:** Internship - Update on Project

**To:** yoga sabarish <[yogasabarish17@gmail.com](mailto:yogasabarish17@gmail.com)>

Hello Yogasabarish

As we reviewed the progress, ideation and solution update on the Data Cleanse piece and tool. It is good, let us continue with the other topics as discussed with stakeholders. Thank you

Best regards,

K S Senthil Kumar

Chief Architect, Smart platforms - AI, Edge, Cloud Accelerator,  
Siemens Industry Software Pte. Ltd.

Digital Factory Division, Expo 2020 - Accelerator Initiatives  
Global Technology Innovation Hub.



H-50A, Yankura Street, Kalakshetra colony, Bewara Nagar, Chennai-600 090,  
112/1 Broadway, 3rd Floor Madurai Mansil, Chennai - 600105.  
www.siamcomputing.com; +91-044-43009954 / +91-9540992253

2nd November 2020

**INTERNSHIP COMPLETION CERTIFICATE**

**To Whomsoever It May Concern**

This letter is to certify that **Ms. Yogapriya H** has successfully completed her internship with **Siam Computing**.

During the course of her internship she worked with the Product Development Team, particularly with Machine Learning. She worked on the project titled "EDUTECH". She was working under the guidance of **Mr. Kevin Karun** (Project Manager) and **Mr. Murugesapandian** (CTO) during the span, and was found to be sincere and hardworking. Her internship tenure was from **17th June 2020** to **31st October 2020**.

Her association with us was very fruitful and we wish her the best for her future endeavors.

For Siam Computing,

**Ms. Anitha Madhivanan**  
HR Executive



Axlware Technologies Pvt Ltd  
Company Reg No: U74999KA2018PTC111448  
No.33, K.K. Complex, Velachery main Road,  
Little Mount, Saidapet, Chennai-600015  
Mh +91 7010166930  
Email: [contact@axlware.com](mailto:contact@axlware.com)

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Nov 13<sup>th</sup>, 2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Viswa Harini, has done her internship program at Axlware Technologies Private Ltd from 20<sup>th</sup> May to 13<sup>th</sup> Nov 2020.

During her internship, she worked on the project "Design HFT (High Frequency Trading) models using big data analysis of historical market data", under the guidance of Mr. Ravishankar Krishnamurthy. She along with the team was able to parse market data, analyze/plot the data and come up with a simulation model for HFT algorithm.

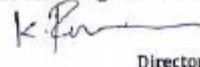
The internship on evaluation fulfills all the stated criteria and student's findings are her original work. During the internship she demonstrated good analyzing/coding skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time.

I hereby certify her work satisfactory to the best of my knowledge.

We wish her all the best for her future endeavors.

**Axlware Technologies Pvt. Ltd.**  
No. 33, K. K. Complex,  
Velachery Main Road, Little Mount,  
Saidapet, Chennai - 600 015.

**For Axlware Technologies Pvt. Ltd.**



**Director**

**Coimbatore Institute of Technology**  
**Department of Computing - Data Science**  
**X Semester M.Sc Data Science**  
**16MDS101/ Project Work and Viva Voce II**

**Academic Year: Dec 2020 - May 2021**

**Batch:2016-21**

Sno	RegNo	Name	Project Title
1	1632001	AAKASH M	An Intuitive And Scalable Approach For Collecting, Indexing, And Tagging Content
2	1632003	BALAMURUGA M	Workplace Ergonomics Assessment using Pose Estimation
3	1632004	DIVYA S	Audit Risk Analysis
4	1632005	DIVYAPRABHA M	Advanced contextual recommendation system
5	1632006	GOKUL PRASATH R	An approach to train a model with intent and entities for an NLP framework in e-learning
6	1632007	GOKUL RANJITH S	FINANCIAL DATA ANALYSIS AND CHAT BOT FOR CUSTOM ANALYTICS
7	1632008	GOPINATH L	Employee Document Classification
8	1632009	GOWTHAM S G	STUDENT PERFORMANCE PREDICTION
9	1632010	HARI PRIYA K	Hate Speech Detection using Machine Learning
10	1632011	HARI HARAN B	Data quality management for bank feed data using machine learning algorithms
11	1632012	HARSHINI G	WORK RESOURCE OPTIMISATION IN METRO STATIONS
12	1632013	HARSHITHA S	Analysis of financial records of an organization
13	1632014	JOSHIKAA R	Building data pipeline for HUB and User Comeback Prediction
14	1632015	KARTHICKKUMAR G	DETECTING DATA ANAMOLIES, VISUALIZATION AND MODEL BUILDING FOR FINTECH
15	1632016	KARTHIK ANAVARTH C	Rebalancing for Portfolio Selection using Optimization Algorithm
16	1632017	KEERTHIVASAN S	Advanced mail server configuration using Fire Eye Detection System
17	1632018	KIRUTHIGA R	Automated Machine Learning in Tekizma BI
18	1632019	KRISHIKA R	Corporate Finance Data Analytics and Automation
19	1632020	KUZHAI MOZHI V	Cash flow Analysis
20	1632021	LHAVANYA ROOBINI V N	Daily chemical consumption calculation and Cost price prediction
21	1632022	MADHUMITA S	Analysing edge cases in reinforcement learning applied to IT environments
22	1632023	MADHUSREE N	Building graph model and query analysis on FHIR data
23	1632024	MOHAN KUMAR R	Sentimental Data Analysis using Rule based learning model
24	1632025	MONISHA G	DETECTING DATA ANAMOLIES, VISUALIZATION AND MODEL BUILDING FOR FINTECH
25	1632026	NANDHINI R	Audit data analysis
26	1632027	NIKILA VARSHINI E	Visual Quality Inspection
27	1632028	NIRANJAN S	Automation of feed generation
28	1632029	NIVEDITHA P	performing features using Predict Context Segments
29	1632030	POOJA S	Data Engineering For A Promotion Analysis System
30	1632031	PRABHAKARAN G	Building graph model and query analysis on FHIR data

31	1632032	PRADEEPA S	Accelerating Sales with Lead Analytics
32	1632033	PRANITHA J	Analysis on the impact of marketing on sales
33	1632034	PRIYANGA C B	Content Categorization
34	1632035	RAGA DHARSINI V M	A Graph driven approach to Multi Cloud Environment
35	1632036	RAHUL C S	Automation of data extraction pipeline for Plutus
36	1632037	RAHUL M	Financial Data Analytics and Anomaly detection
37	1632038	RAMYAASHRI B	Anomaly detection for cloud providers
38	1632039	RASHMIKKA R	Classification and localisation of covid19 markers in lung ultrasound
39	1632040	RUPAA R	Building APIs for Sat2Farm application
40	1632041	SABARI RAAJ P	Financial Data Analytics and Anomaly detection
41	1632042	SABARIBALAJI K	Web application to predict ground water level
42	1632043	SAIKRISHNA N	Intelligent Alerting
43	1632044	SANDHYA J	Building multi-disciplinary framework for time series forecasting
44	1632045	SIVA KARTHIK S	Integrating Object Detection Models in Auto ML Platform
45	1632046	SREEHA M R	Analysis and Visualization on Financial Statements
46	1632047	SREENATH S	Clinical recommendation and support system
47	1632048	SRI CHIDAMBARAM C P	Predictive Maintenance of Cooling Tower
48	1632049	SRIHARENI S	Classification and localisation of covid19 markers in lung ultrasound
49	1632050	SUBATHRA S	University and Career Recommendation for High School Students
50	1632052	SURYA E	Anomaly detection and Prediction in multi-cloud platforms
51	1632053	SWARNAMANJARI B	Chain retail store's customer next purchase product prediction on distributed systems
52	1632054	SWATHI R	Automation model to maintain temperature and humidity in Server Room
53	1632055	VAISHNAVI S	Fallout Reduction Analytics for a Wheel Manufacturing Industry
54	1632056	VINITHA C M	Banking data analysis using machine learning models
55	1632057	VIPIN C	E-learning Business Management System
56	1632058	VISHNU KARTHIKLU V	INTEGRATING IMAGE CLASSIFICATION MODELS IN AUTO ML PLATFORM
57	1632059	VISWAPRASAANTH G	ARCHITECT WALL SURVEY DATA ANALYSIS
58	1632060	YUVARAJ T	Crop classification using satellite data

April 27, 2021

## **BONAFIDE CERTIFICATE**

To Whom It May Concern:

This is to certify that Aakash M(#1632001), a student of Master Of Science in DataScience(10<sup>th</sup> Semester) at Coimbatore Institute of Technology, is enrolled in the full-time internship program at bitWise Academy. This program is for a duration of five months and will last from December 21, 2020 to May 21, 2021.

During the internship period, Aakash will perform assigned tasks and contribute to the Machine learning team in the An Intuitive And Scalable Approach For Collecting, Indexing, And Tagging Content. He is assigned to work under the guidance of Mr.Madhan Karthik, who is leading the development of the Machine learning platform.

Sincerely,

G. Venkat

G Venkat  
Chief Executive Officer  
bitWise Academy Inc.,

19<sup>th</sup> April, 2021  
Coimbatore

To Whomever it may concern,

**BALAMURUGA M**, pursuing his final Year, M.Sc. Data science at Coimbatore Institute of Technology is undergoing his Tenth Semester Internship from December 1, 2020 scheduled to be completed on **May 31, 2021** at OptiSol Business Solutions Pvt Ltd Coimbatore with the project titled “**Workplace Ergonomics assessment using Pose estimation**” under the guidance of Karthic Chandran.

His performance during this internship has been exemplary. He showed good aptitude and motivation to learn new technology stacks quickly and has been a great addition to our team. We wish him all the very best in his future endeavours.

Yours Sincerely,

**For OptiSol Business Solutions Private Limited**



**Karthic Chandran, Director.**

29 April 2021

**Divya S**  
**Coimbatore Institute of Technology, Coimbatore.**

**To Whomsoever It May Concern**

This is to certify that **Ms. Divya S (Register No: 1632004)**, student of MSc Data Science from **Coimbatore Institute of Technology**, is currently doing her Project Internship at *S. R. Batliboi & Associates LLP*.

Duration: 07 December 2020 – 07 June 2021

Her project title is “**Audit Risk Analysis**”

During her internship period, it is found that her work is committed and good.

We wish her all the best for her future endeavors.

For *S. R. Batliboi & Associates LLP*,

*Vikram Kumar Devatha*

---

**Vikram K Devatha,**  
Director, Analytics COE  
**Authorized Signatory**



**MiQ Digital India Pvt. Ltd.**

5<sup>th</sup> & 6<sup>th</sup> floor SKAV 909,

9/1 Lavelle road,

Bengaluru-560001

15<sup>th</sup> Apr 2021

Bangalore

**TO WHOSOEVER IT MAY CONCERN**

This is to certify that Ms. Divyaprabha M is pursuing her internship with MiQ Digital India Pvt. Ltd. from 2<sup>nd</sup> Dec 2020.

Sincerely,

**For MiQ Digital India Pvt. Ltd.**

A handwritten signature in black ink, appearing to read 'Mridula Venugopal', is written over a light blue horizontal line.

**Mridula Venugopal**  
**Chief People Officer**

April 28, 2021

## **BONAFIDE CERTIFICATE**

To Whom It May Concern:

This is to certify that Gokul Prasath R(#1632006), a student of Master Of Science in Data Science (10<sup>th</sup> Semester) at Coimbatore Institute of Technology, is enrolled in the full-time internship program at bitWise Academy. This program is for a duration of five months and will last from December 21, 2020 to June 04, 2021.

During the internship period, Gokul Prasath will perform assigned tasks and contribute to the software engineering team in the area of NLP chatbot platform. He is assigned to work under the guidance of Mr. MadhanKarthik, who is leading the development of the bitWise platform.

Sincerely,

G. Venkat

G Venkat  
Chief Executive Officer  
bitWise Academy Inc.,

29 April 2021

**Gokul Ranjith S**  
**Coimbatore Institute of Technology, Coimbatore.**

**To Whomsoever It May Concern**

This is to certify that **Mr. Gokul Ranjith S (Register No: 1632007)**, student of MSc Data Science from **Coimbatore Institute of Technology**, is currently doing his Project Internship at *S. R. Batliboi & Associates LLP*.

Duration: 07 December 2020 – 07 June 2021

His project title is “**Financial Data Analysis and Chat Bot Systems for Custom Analytics**”.

During his internship period, it is found that his work is committed and good.

We wish him all the best for his future endeavors.

For *S. R. Batliboi & Associates LLP*,

*Vikram Kumar Devatha*

---

**Vikram K Devatha,**  
Director, Analytics COE  
**Authorized Signatory**

1 May, 2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. Gopinath L is pursuing his internship with Quantrium Tech Private Limited from 7th December 2020 and is expected to complete his Internship on 4th June 2021.

**Yours sincerely**

A handwritten signature in blue ink, appearing to read 'R. N. S.', with a horizontal line underneath.

**Rabindranath  
Director**

**Quantrium Tech Private Limited**

1 Floor, 3, Sri Ram Nagar, South Street, Alwarpet, Chennai - 600 018  
GSTIN - 33AACQ5848H1ZD | CIN - U72900TN2019PTC126803

## Internship Interim Certificate

27<sup>th</sup> April,2021

To Whomever it may concern,

This is to certify that **Hari Priya K** from Coimbatore Institute of Technology, Coimbatore is undergoing an Internship on the topic “**Hate Speech Detection using Machine Learning**” from 11.01.2021 to till date under the guidance of **Dr. Vivek Srinivasan**.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vivek Srinivasan', is positioned above the printed name.

Dr. Vivek S  
(Founder, LibTech India)



# OSYTE TECHNOLOGIES PVT LTD

---

715-A, 7th Floor, Spencer Plaza, Suite No.745, Mount Road, Anna Salai, Chennai - 600 002

**Date:** 26-April-2021

**To Whomsoever it may Concern**

**Subject: Hariharan Balamurugan – Osyte Internship**

This is to certify that Hariharan Balamurugan, student of Coimbatore Institute of Technology, Reg. No. 1632011 is undergoing Internship in Osyte Technologies Pvt Ltd. Chennai, from 1st February 2021 in Data quality management using Machine learning algorithms and expected to complete his Internship on 31st May 2021.

Sincerely,

*G. Sellappa*

Sellappa Gopaldaswamy

CTO, Osyte Technologies PVT LTD (India) & Osyte, Inc (USA)

Email: [Sellappa@osyte.com](mailto:Sellappa@osyte.com)

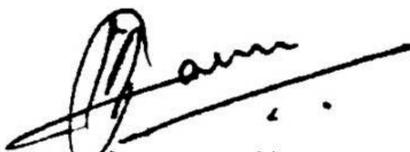
HCI/TD/INT/2020-21/0001  
16<sup>th</sup> April, 2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. G HARSHINI** who is pursuing Masters in Data Science at Coimbatore Institute of Technology has successfully completed the **Internship Training** at Heavy Civil Infrastructure IC, HQ-Manapakkam, from 01<sup>st</sup> Dec, 2020 to 16<sup>th</sup> Apr, 2021.

We wish her all the success in her future endeavors.

Sincerely,  
**For Larsen & Toubro Limited**



**Mohan Jadhav**  
**Deputy General Manager (HR)**

29 April 2021

**Harshitha S**  
**Coimbatore Institute of Technology, Coimbatore.**

**To Whomsoever It May Concern**

This is to certify that **Ms. Harshitha S (Register No: 1632013)**, student of MSc Data Science from **Coimbatore Institute of Technology**, is currently doing her Project Internship at *S. R. Batliboi & Associates LLP*.

Duration: 07 December 2020 – 07 June 2021

Her project title is “**Analysis of financial records of an organization**”.

During her internship period, it is found that her work is committed and good.

We wish her all the best for her future endeavors.

For *S. R. Batliboi & Associates LLP*,

*Vikram Kumar Devatha*

---

**Vikram K Devatha,**  
Director, Analytics COE  
**Authorized Signatory**



**MiQ Digital India Pvt. Ltd.**

5<sup>th</sup> & 6<sup>th</sup> floor SKAV 909,

9/1 Lavelle road,

Bengaluru-560001

15<sup>th</sup> Apr 2021

Bangalore

**TO WHOSOEVER IT MAY CONCERN**

This is to certify that Ms. Joshikaa R is pursuing her internship with MiQ Digital India Pvt. Ltd. from 2<sup>nd</sup> Dec 2020.

Sincerely,

**For MiQ Digital India Pvt. Ltd.**

A handwritten signature in black ink, appearing to read 'Mridula Venugopal', is written over a light blue horizontal line.

**Mridula Venugopal**  
**Chief People Officer**

29 April 2021

**Karthickkumar G**  
**Coimbatore Institute of Technology, Coimbatore.**

**To Whomsoever It May Concern**

This is to certify that **Mr. Karthickkumar G (Register No: 1632015)**, student of MSc Data Science from **Coimbatore Institute of Technology**, is currently doing his Project Internship at *S. R. Batliboi & Associates LLP*.

Duration: 07 December 2020 – 07 June 2021

His project title is “**Detecting Data Anomalies, Visualization and Model-building for Fintech**”.

During his internship period, it is found that his work is committed and good.

We wish him all the best for his future endeavors.

For *S. R. Batliboi & Associates LLP*,

*Vikram Kumar Devatha*

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**Vikram K Devatha,**  
Director, Analytics COE  
**Authorized Signatory**



# OSYTE TECHNOLOGIES PVT LTD

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715-A, 7th Floor, Spencer Plaza, Suite No.745, Mount Road, Anna Salai, Chennai - 600 002

**Date:** 28-April-2021

**To Whomsoever it may Concern**

**Subject: Karthik Anavarth C– Osyte Internship**

This is to certify that Karthik Anavarth C, a student of Coimbatore Institute of Technology, Reg. No. 1632016 is undergoing Internship in Osyte Technologies Pvt Ltd. Chennai, from 21st February 2021 in data science and machine learning algorithms and expected to complete his Internship on 31st May 2021.

Sincerely,

*G. Sellappa*

Sellappa Gopaldaswamy

CTO, Osyte Technologies PVT LTD (India) & Osyte, Inc (USA)

Email: [Sellappa@osyte.com](mailto:Sellappa@osyte.com)

**Bonafide Certificate**

**Date: April 16, 2021**

**To Whom It May Concern**

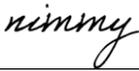
This is to confirm that Kiruthiga R is associated with Tekizma India Solutions Private Limited as an Intern since December 14, 2020 till present.

She works full-time with us for a total number of 5 days per week. Kiruthiga is currently associated with the project titled Automated Machine Learning in Tekizma BI.

Kiruthiga has competently handled major responsibilities and is hardworking and productive.

This certificate has been issued to Kiruthiga R for the college purposes.

Sincerely,



---

Ms. Nimmy Elizabeth

Human Resource Manager

Tekizma India Solutions Private Limited

29 April 2021

**Krishika R**  
**Coimbatore Institute of Technology, Coimbatore.**

**To Whomsoever It May Concern**

This is to certify that **Ms. Krishika R (Register No: 1632019)**, student of MSc Data Science from **Coimbatore Institute of Technology**, is currently doing her Project Internship at *S. R. Batliboi & Associates LLP*.

Duration: 07 December 2020 – 07 June 2021

Her project title is “**Corporate finance data analytics and automation**”.

During her internship period, it is found that her work is committed and good.

We wish her all the best for her future endeavors.

For *S. R. Batliboi & Associates LLP*,

*Vikram Kumar Devatha*

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**Vikram K Devatha,**  
Director, Analytics COE  
**Authorized Signatory**

Date: April 22, 2021

## INTERNSHIP CERTIFICATE

This is to certify that Ms. **VN Lhavanya Roobini** (Reg no. 1632021), student of M.Sc., Data Science at Coimbatore Institute of Technology (CIT), is Pursuing 6 Months Internship Program in our organisation 'Buckman Laboratories India Pvt Ltd, Chennai'. The Internship Program is for the period 'December 1, 2020 till May 31, 2021'.

For Buckman Laboratories India Pvt Ltd.



Subha Priyan  
Senior HR Business Partner

April 23, 2021

To Whom It May Concern,

This letter is to certify that Madhumita Selvan, student of Coimbatore Institute of Technology, MSc Data Science, Reg. No. 1632022 has been doing her internship program for Six months with M/S. Vpods Technologies Private Ltd. Her internship tenure was from January 2021 to June 2021. She is working on the project Analysing edge cases in reinforcement learning applied to IT environments.

During the span, we found her punctual and hardworking. Her learning powers are good, and she picks up swiftly. Her feedback and evaluation proved that she learned keenly. Moreover, her interpersonal and communication skills are brilliant.

Yours Sincerely,

For VPODS Technologies Pvt Ltd.



Prasanna Kishore

Director - Human Resources



# TOPBEAN TECHNOLOGIES™

THE EXPERT TEAM

SOFTWARE DEVELOPING | WEB DESIGNING | WEB HOSTING | NETWORKING SOLUTION

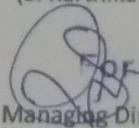
## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.R. Mohan Kumar (Reg No: 1632024) from **Coimbatore Institute of Technology** pursuing **Final year Master of Science (Data Science)** has successfully completed the internship in our organisation for a duration of 5 months from **December 2020 to April 2021**.

The scope of work during this time duration was a project on analytics based application software, developing a **"Web Application to analyse Sentiment data"**.

During the period, he was sincere and regular in rendering his work towards all the phases of project.

(S. Karthikeyan)

  
For Topbean Tech  
Managing Director

Topbean Technologies Manager

E-MAIL – MAIL@TOPBEAN.CO.IN | WEB – WWW.TOPBEAN.CO.IN | CONTACT: 99442-28168, 99524-28168, 0422 -4378168

H-O : Coimbatore : 198, V.K.V Building 3<sup>rd</sup> floor, Nehru Street, Ram nagar, Gandhipuram, Coimbatore – 641009.  
B-O :Erode : 395/1, 3<sup>rd</sup> Floor, Alagu Complex, Perundurai Road, Erode – 638001.  
B-O: Malaysia : No 29, Jalan sp 4/17, Bandar saujana putra, 42610 jenjarom, Kuala Lumpur.

Scanned by TapScanner

29 April 2021

**Monisha G**  
**Coimbatore Institute of Technology, Coimbatore.**

**To Whomsoever It May Concern**

This is to certify that **Ms. Monisha G (Register No: 1632025)**, student of MSc Data Science from **Coimbatore Institute of Technology**, is currently doing her Project Internship at *S. R. Batliboi & Associates LLP*.

Duration: 07 December 2020 – 07 June 2021

Her project title is “**Detecting Data Anomalies, Visualization and Model-building for Fintech**”.

During her internship period, it is found that her work is committed and good.

We wish her all the best for her future endeavors.

For *S. R. Batliboi & Associates LLP*,

*Vikram Kumar Devatha*

---

**Vikram K Devatha,**  
Director, Analytics COE  
**Authorized Signatory**

29 April 2021

**Nandhini R**  
**Coimbatore Institute of Technology, Coimbatore.**

**To Whomsoever It May Concern**

This is to certify that **Ms. Nandhini R (Register No: 1632026)**, student of MSc Data Science from **Coimbatore Institute of Technology**, is currently doing her Project Internship at *S. R. Batliboi & Associates LLP*.

Duration: 07 December 2020 – 17 March 2021

Her project title is “**Audit Data Analysis**”.

During her internship period, it is found that her work is committed and good.

We wish her all the best for her future endeavors.

For *S. R. Batliboi & Associates LLP*,

*Vikram Kumar Devatha*

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**Vikram K Devatha,**  
Director, Analytics COE  
**Authorized Signatory**

Robert Bosch Engineering and  
Business Solutions Private  
Limited - (CIN:  
U72400KA1997PTC023164)  
123, Industrial Layout,  
Hosur Road, Koramangala  
Bengaluru 560095 INDIA  
Tel +91 80 6657-5757  
Fax +91 80 6657-1404  
[www.boschindiasoftware.com](http://www.boschindiasoftware.com)

**Internship Interim Certificate**

Date: 20.04.2021

This is to certify that **Nikila Varshini Easwaran (E No: 33877788)** from **Coimbatore Institute of Technology, Coimbatore** has carried out an internship on the topic “**Visual Quality Inspection**” from 11.01.2021 to till date under the guidance of **Alka Nair (SX/EDS-DL11)**.

Robert Bosch Engineering and Business Solutions Private Limited.

pki, BOSCH,  
APAC, B, H,  
Bharath.Kakaiah

Digitally signed by pki,  
BOSCH, APAC, B, H,  
Bharath.Kakaiah  
Date: 2021.04.20 13:54:43  
+05'30'

Bharath Kakaiah  
Human Resources  
RBEI

April 24<sup>th</sup>, 2021

To Whomsoever It May Concern

This is to certify that Niranjana S, student of Coimbatore Institute of Technology, Reg. No. 1632028 is undergoing Internship in LatentView Analytics Pvt. Ltd. Chennai, from 1<sup>st</sup> December 2020 in Automation of Feed Generation and expected to complete his Internship on 31<sup>st</sup> May 2021 and his attendance has been regular so far.

Thanking you,

For LatentView Analytics Pvt Ltd.,



Poornima Shankar  
Manager - Human Resources



**MiQ Digital India Pvt. Ltd.**

5<sup>th</sup> & 6<sup>th</sup> floor SKAV 909,  
9/1 Lavelle road,  
Bengaluru-560001

15<sup>th</sup> Apr 2021  
Bangalore

**TO WHOSOEVER IT MAY CONCERN**

This is to certify that Ms. Niveditha P is pursuing her internship with MiQ Digital India Pvt. Ltd. from 2<sup>nd</sup> Dec 2020.

Sincerely,  
**For MiQ Digital India Pvt. Ltd.**

A handwritten signature in black ink, appearing to read 'Mridula Venugopal', is written over a light blue horizontal line.

**Mridula Venugopal**  
**Chief People Officer**

23 April 2021

THOROGOOD®

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Pooja S (1632030)** pursuing M.Sc. Data Science at Coimbatore Institute of Technology is undergoing her tenth-semester internship from December 2nd, 2020, and tentatively scheduled to complete on June 15th, 2021, at **Thorogood Associates India Private Limited, Bangalore** with the project title 'Data Engineering for a Promotion Analytics System' under the guidance of Ms. Aishwarya Shinde, Business Intelligence and Analytics Consultant.



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Aishwarya Shinde  
Business Intelligence and Analytics Consultant  
Thorogood Associates India Private Limited, Bangalore



**HKG Inc.**

**Internship Progress Certificate**

**To Whomsoever it may concern**

This is to certify that Prabhakaran G (Roll #: 1632031) is doing his internship in our company. His internship work is based on machine learning as applied to Healthcare. The title of his work is "Building graph model and query analysis on FHIR Data" and he has been working hard on completing the project work in May 2021. His project started on Jan 13, 2021. We appreciate his enthusiasm for learning new topics and his efforts in working with the team towards the completion of the project.

Sincerely,

A handwritten signature in black ink, which appears to read "K. Subramanian", is written over the date "27 April 2021". The signature is written in a cursive style.

**Krishnan Subramanian**  
*CTO, HKG Inc*



15-April-2021

Pranitha J,  
Coimbatore Institute of Technology,

Subject: Letter of Consent

This is to confirm that the student Ms. Pranitha J, MSc. Data Science, Department of Computing, from Coimbatore Institute of Technology is currently undergoing internship in the department of Data Science located at Bangalore with effect from 18th Jan 2021 till May 15<sup>th</sup> May (tentative date).

We hereby confirm that the internship work carried out by the student will be assessed at the end of the internship period based on periodical evaluations and graded as one of the following:

S – Exceptional; A- Above Average; B- Good; C- Average; D- below Average; E- Poor; F- Fail, and a letter of completion will be issued.

Yours sincerely,

TheMathCompany Private Limited



Ashish Thomas Sam  
Head – People & Operations  
IN: +91 9845470380

[www.themathcompany.com](http://www.themathcompany.com)

[LinkedIn](#) | [Facebook](#) | [Twitter](#) | [Instagram](#)



April 23, 2021

To Whom It May Concern,

This letter is to certify that Raga Dharsini VM, student of Coimbatore Institute of Technology, MSc Data Science, Reg. No. 1632035 has been doing her internship program for Six months with M/S. Vpods Technologies Private Ltd. Her internship tenure was from January 2021 to June 2021. She is working on the project A graph driven approach to Multi Cloud Management.

During the span, we found her punctual and hardworking. Her learning powers are good, and she picks up swiftly. Her feedback and evaluation proved that she learned keenly. Moreover, her interpersonal and communication skills are brilliant.

Yours Sincerely,

For VPODS Technologies Pvt Ltd.



Prasanna Kishore

Director - Human Resources



**CredAvenue**

**Bonafide certificate for Internship**

Date: 26.04.2021

To whomsoever this may concern:

This is to certify that **Rahul CS** student of Coimbatore Institute of Technology has completed his 4 months of the 6 months of his Internship Program with our organisation as on date. The start and end date of the internship is **Dec 7, 2020** and **June 6, 2021**, respectively.

During the internship, the student is working with the **Data Engineering team** on Plutus, one of the platforms of CredAvenue.

Rahul CS is a keen learner and has been able to deliver up to expected performance levels. His association with us was fruitful and we wish him all the very best in his future endeavours.

Sincerely,

**Joseph Nirmal**

Deputy Vice President – Human Resources  
CredAvenue Pvt Ltd

April 23, 2021

To Whom It May Concern,

This letter is to certify that Ramyaashri Balasubramanian, student of Coimbatore Institute of Technology, MSc Data Science, Reg. No. 1632038 has been doing her internship program for Six months with M/S. Vpods Technologies Private Ltd. Her internship tenure was from January 2021 to June 2021. She is working on the project Anomaly detection for cloud providers.

During the span, we found her punctual and hardworking. Her learning powers are good, and she picks up swiftly. Her feedback and evaluation proved that she learned keenly. Moreover, her interpersonal and communication skills are brilliant.

Yours Sincerely,

For VPODS Technologies Pvt Ltd.



Prasanna Kishore

Director - Human Resources

29 April 2021

**Sabari Raaj P**  
**Coimbatore Institute of Technology, Coimbatore.**

**To Whomsoever It May Concern**

This is to certify that **Mr. Sabari Raaj P (Register No: 1632041)**, student of MSc Data Science from **Coimbatore Institute of Technology**, is currently doing his Project Internship at *S. R. Batliboi & Associates LLP*.

Duration: 07 December 2020 – 07 June 2021

His project title is “**Financial Data Analytics and Anomaly Detection**”.

During his internship period, it is found that his work is committed and good.

We wish him all the best for his future endeavors.

For *S. R. Batliboi & Associates LLP*,

*Vikram Kumar Devatha*

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**Vikram K Devatha,**  
Director, Analytics.  
**Authorized Signatory**

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26 April, 2021

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Saikrishna N**, who is pursuing his final year of M.Sc. Data science at Coimbatore Institute of Technology, is undergoing his Tenth Semester Internship from January 4, 2021 scheduled to be completed on **May 31, 2021** at Superops Technologies Pvt Ltd, Chennai with the project titled "**Intelligent Alerting**" under the guidance of Mr. Sivanand Sivaram. His performance during this internship has been exemplary. He showed good aptitude and motivation to learn new technology stacks quickly and has been a great addition to our team. We are happy to have him in the team.

Yours Sincerely,  
**For Superops Technologies Private Limited**



**Jayakumar Karumbasalam**  
CPO & CTO



QpiAI India Pvt Ltd

## TO WHOMEVER IT MAY CONCERN

This is to certify that **Ms. Sandhya J** (Roll No. 1632044) from Coimbatore Institute of Technology, pursuing M.SC in Data Science (5<sup>th</sup> year) has successfully completed her internship at our organization QpiAI India Pvt. Ltd for a duration of 4.5 months (From 16th Dec, 2020 to 30th Apr, 2021) . During the period of her internship with us she was found punctual and hardworking.

We wish her every success in life.

A handwritten signature in black ink that reads "Ritika Singh".

For QpiAI India Pvt Ltd

(Ritika Singh, HR Manager)

# Curneu MedTech Innovations Private Limited

April 26, 2021  
India

Ref. No: Curneu/IN29-20212604

## To Whom so ever It may Concern

This is to certify that Mr. SREENATH S (1632047), pursuing 5th Year in MSc Data Science, Coimbatore Institute of Technology, did his Internship as Junior Data Science– Intern from 16.12.2020 – 26.04.2021 in our organization.

During his work period he was involved in the project titled "Clinical Recommendation and Support System." The candidate was involved in developing clinical recommendation engine and demonstrated commendable knowledge in Python Programming.

The candidate during the course of work period was found to be sincere and hard working with professional attitude and good job knowledge.

We wish all the best for his future endeavor.

Best of Luck!

Regards,



David Roshan Cyril  
Co-Founder & CEO  
Curneu MedTech Innovations Pvt. Ltd

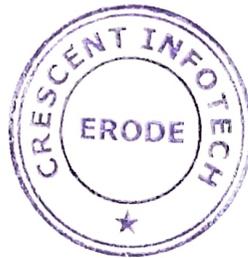
Date: 17-5-2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that below mentioned that **Ms. SRIHARENI S** from **Coimbatore Institute of Technology**, Coimbatore has successfully completed her six month internship program on “**CLASSIFICATION AND LOCALISATION OF COVID19 MARKERS IN LUNG ULTRASOUND**” from **December 2020 to May 2021**. During the period of internship programme with us, she was found to be smart working and inquisitive.

We wish her for the best future.

Regards,



  
Authorized Signatory,

**Crescent InfoTech**

April 27, 2021

## **BONAFIDE CERTIFICATE**

To Whom It May Concern:

This is to certify that Subathra S(#1632050), a student of Master Of Science in DataScience(10<sup>th</sup> Semester) at Coimbatore Institute of Technology, is enrolled in the full-time internship program at bitWise Academy. This program is for a duration of five months and will last from December 21, 2020 to May 24, 2021.

During the internship period, Subathra will perform assigned tasks and contribute to the Machine learning team in the part of University and career recommendation for high school students. She is assigned to work under the guidance of Mr.Madhan Karthik, who is leading the development of the Machine learning platform.

Sincerely,

G. Venkat

G Venkat  
Chief Executive Officer  
bitWise Academy Inc.,

April 23, 2021

To Whom It May Concern,

This letter is to certify that Surya Eswarasamy, student of Coimbatore Institute of Technology, MSc Data Science, Reg. No. 1632052 has been doing his internship program for Six months with M/S. Vpods Technologies Private Ltd. His internship tenure was from January 2021 to June 2021. He is working on the project Anomaly detection and prediction in multi-cloud platforms.

During the span, we found his punctual and hardworking. His learning powers are good, and he picks up swiftly. His feedback and evaluation proved that he learned keenly. Moreover, his interpersonal and communication skills are brilliant.

Yours Sincerely,

For VPODS Technologies Pvt Ltd.



Prasanna Kishore

Director - Human Resources



DeepSphere.AI  
Enterprise AI and IIoT for Analytics

## **TO WHOMEVER IT MAY CONCERN**

This is to certify that Ms. Swarnamanjari B (Roll No. 1632053) from Coimbatore Institute of Technology, pursuing MSc in Data science (5<sup>th</sup> year) has completed internship project at our organization **DeepSphere.AI India Private Limited** for a duration of 4 months (from 23<sup>rd</sup> December 2020 to 30<sup>th</sup> April 2021). During the internship period she was found punctual and hard working. We wish her success in life.

Sincerely  
For **DeepSphere.AI India Private Limited**

**MD / Manager HR**

### **DEEPSPHERE AI INDIA PRIVATE LIMITED**

No 38, Mahatma Gandhi Rd, VGN Phase -4, Nolambur,  
Chennai - 600 095, Tamil Nadu, India. 📞 +91 97911 62222

### **DEEPSPHERE.AI, INC**

2100 Geng Road, Suite 210, Palo Alto, California 94303 📞 Tel: 408.373.7892

✉ info@deepsphere.ai 🌐 deepsphere.ai | dsschoolofai.com

DeepSphere.AI

## **SUB: Project Completion letter**

This is to certify that **Miss. Swathi R** an intern at **AVASOFT** pursuing internship for past 2 months from **Coimbatore Institute of Technology** has done a project on the topic “**AUTOMATION MODEL TO MAINTAIN TEMPERATURE AND HUMIDITY OF A SERVER ROOM**”

**Regards,**



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**Soumi S**  
**Human Resources**

**AVA Software Pvt. Ltd.,**

Bayline Infocity Limited, 1st Floor, Block 2, 33, Rajiv Gandhi Salai,  
Navalur, Chennai - 600 130

**Website:** <http://www.avasoft.com>

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Robert Bosch Engineering and  
Business Solutions Private  
Limited - (CIN:  
U72400KA1997PTC023164)  
123, Industrial Layout,  
Hosur Road, Koramangala  
Bengaluru 560095 INDIA  
Tel +91 80 6657-5757  
Fax +91 80 6657-1404  
[www.boschindiasoftware.com](http://www.boschindiasoftware.com)

**Internship Interim Certificate**

Date: 20.04.2021

This is to certify that **Vaishnavi Saravanan (E No: 33877779)** from **Coimbatore Institute of Technology, Coimbatore** has carried out an internship on the topic **“Fallout reduction analytics for a wheel manufacturing industry”** from 11.01.2021 to till date under the guidance of **Priya Francis (SX/EDS-DL12)**.

Robert Bosch Engineering and Business Solutions Private Limited.

pki, BOSCH,  
APAC, B, H,  
**Bharath.Kakaiah**  
Bharath Kakaiah  
Human Resources  
RBEI

Digitally signed by pki,  
BOSCH, APAC, B, H,  
Bharath.Kakaiah  
Date: 2021.04.20 13:54:19  
+05'30'

29 April 2021

**Vinitha C M**  
**Coimbatore Institute of Technology, Coimbatore.**

**To Whomsoever It May Concern**

This is to certify that **Ms. Vinitha C M (Register No: 1632056)**, student of MSc Data Science from **Coimbatore Institute of Technology**, is currently doing her Project Internship at *S. R. Batliboi & Associates LLP*.

Duration: 07 December 2020 – 07 June 2021

Her project title is “**Banking data Analysis using Machine learning models**”.

During her internship period, it is found that her work is committed and good.

We wish her all the best for her future endeavors.

For *S. R. Batliboi & Associates LLP*,

*Vikram Kumar Devatha*

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**Vikram K Devatha,**  
Director, Analytics COE.  
**Authorized Signatory**

April 28, 2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Vipin C, student of MSc Data Science at Coimbatore Institute of Technology is undergoing internship in "E-Learning Business Management System" at Rathinam Trainers and Consultants Private Limited, Coimbatore from 7<sup>th</sup> December 2020.

During the internship programme with us he was found punctual, self-motivated and hard-working.

We wish him all the best for his future endeavours.

Best of Luck!

Regards,



Rajan Rayappan

Chief Executive Officer

Rathinam Trainers and Consultants Private Limited





April 21, 2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that a project entitled **Crop classification using Satellite data** has been carried out by **Mr. Yuvaraj T** (Reg. No: 1632060), pursuing M.Sc. Data Science (V year) in Coimbatore Institute of Technology at Satyukt Analytics Pvt. Ltd. Bangalore. During the four months (December 2020 to April 2021) of his internship, he was found to be punctual, hardworking, and inquisitive.

  
S. Thyaku  
COO

A circular blue ink stamp. The outer ring contains the text "Satyukt Analytics Pvt. Ltd." at the top and "Bangalore" at the bottom, separated by two small stars. In the center of the stamp, the text "S. Thyaku" and "COO" are printed in a bold, sans-serif font.