

Edwin Jose

Chief Technology Officer, HAILABS Pvt Ltd

Education	Cochin University of Science and Technology (CUSAT), Kerala, India <i>Master of Science</i> , Electronic Science CGPA: 9.5/10 (Overall) <i>Jun' 18 - Jun' 20</i>
	Christ University, Bengaluru, India <i>Bachelor of Science</i> , Physics, Mathematics, Electronics (Triple Major) CGPA: 9.36/10 (Overall) <i>Jun' 15 - Jun' 18</i>

Research Interests Machine Learning, Deep Learning, Time Series Analysis and Forecasting, Explainable AI, IoT, Hyper-parameter Optimisation, Natural Language Processing

Publications

Jose, Edwin, M. Greeshma, Mithun TP Haridas, and M. H. Supriya. "Face recognition based surveillance system using facenet and mtcn on jetson tx2." In *2019 5th International Conference on Advanced Computing Communication Systems (ICACCS)*, pp. 608-613. IEEE, 2019.

Jose, Edwin, Ajai John Chemmanam, Bijoy A. Jose, and Asif Mooppan. "Detecting Anomalies in Power Consumption of an Internet of Things Network Using Statistical Techniques." In *Artificial Intelligence Driven Circuits and Systems*, pp. 153-164. Springer, Singapore, 2022.

Work Experience

Co-Founder & Chief Technology Officer: HAILABS *Jan' 22 – Present*

- Develop technical architecture of the platform
- Design the Wireframe of the Custom Content Management System
- Developing and implementing the Machine learning Models for HAILABS
- Co-ordinate, manage and connect technical, pedagogy, and machine learning teams at HAILABS

Research Fellow: Sony Consultancy, CUSAT *Aug' 21 – Dec' 22*
Principal Investigator : Prof.(Dr.)Supriya M. H.

- Project : In Situ Intelligent Passive Acoustic Sensor Network For Monitoring Marine Habitats

Junior Research Fellow: Department of Science Technology Interdisciplinary Cyber Physical Systems (ICPS) Project, CUSAT *Oct' 20 - Aug' 21*
Principal Investigator : Dr.Bijoy Antony Jose

- Works on concepts :Time Series Analysis and Power Consumption Anomaly Detection
- Machine Learning and Statistical approach

Internship Experience

Machine Learning Intern *Dec' 19 - Jun' 20*
Company: MyWays Life Layouts Pvt Ltd, Delhi, India

- Developed an *Internship and Career Recommendation System*
- Myways is an AI-enabled Psychometric based career and internship recommendation portal.
- Concepts Used: Recommendation systems, NLP, Data Analysis, AWS, Machine Learning models optimization and production.

Awards & Achievements

- **First Rank Holder** Msc.Electronic Science CUSAT
- **Best Paper Award** International Conference on Advanced Computing and Communication Systems (ICACCS) 2019 SriEshwar College of Engineering
- **Runners Up Social Innovation Challenge 2017**, Indian Institute of Technology Delhi

Other
Research
Domains

Seminar On Deep Video Analytics

Mentor : Mithun Haridas T P (Asst. Professor, CUSAT)

2019

- Detailed review on deep video analytics, including the study on the basic neural network, convolutional neural networks, restricted Boltzmann machines, RNN, LSTM, and generative Adversarial Networks.
- Latest trends and history of video analytics, and also a case study in the domain of human action recognition.

Face Recognition based Surveillance System Using FaceNet and MTCNN on Jetson TX2

Mentor : Mithun Haridas T P (Asst. Professor, CUSAT)

2019

- Implementation of an intelligent multi-camera Face Recognition-based surveillance system using FaceNet and MTCNN algorithm on Jetson TX2.
- The portable system tracks the suspects and adds their location to the database.

Academic
Projects

Crowd Behaviour Analysis / Action Recognition using Convolutional neural network (CNN) - Long short-term memory (LSTM)

Mentor : Mithun Haridas T P (Asst. Professor, CUSAT)

Jun' 18 - Jun'19

- Implemented various methods of crowd behavior analysis using machine learning principles - CNN LSTM. And analyzed the performance of our network with the traditional methods.
- Concepts Used: CNN transfer Learning, LSTM, Awareness about Various CNN architecture

Spherical Robot

Mentor : Dr. Tripti S Warriar (Asst. Professor, CUSAT)

Jun' 14 - Jun'19

- A robot with the spherical external shape on the Arduino platform
- It's typically made of a spherical shell (eg. hamster ball)with an internal driving unit (IDU)-that enables the robot to move.
- The rolling motion is performed by changing the robot's center of mass (pendulum-driven system).
- Can be controlled by Bluetooth and mobile as the controller.

Presence based elevator system

Mentor : Benny Sebastain (Asst. Professor, Christ University)

Jun' 16 - Jun'18

- Intelligent Elevator prototype that has custom optimized motion plan with respect to the presence of users
- Optimized motion saving time and power
- On Custom Arduino Platform

Other
Projects

Argus

Developed for Social Innovation Challenge IIT Delhi

Feb' 17 - Jun' 18

- Simplified android user interface designed for the visually impaired people.
- Integrations to gesture and google vision.
- Additional future features for micro-location navigation.

Computer
Skills

Languages: Python, JAVA, Matlab, ~~LaTeX~~ LaTeX, Arduino, Embedded C

Extra
Interests

Machine Learning project mentoring at technical community Impact ai
Hobbies: Cycling & Inquisitive Reader