SARATH M

Machine Learning Engineer

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SarathM1

EXPERIENCE

Specialist
Tata Elxsi

📅 July 2016 – Ongoing   📍 Technopark, Trivandrum

Embedded System Engineer
Unisync Technologies

📅 Jan 2015 – July 2016   📍 Vyttila, Ernakulam

MOST PROUD OF

🏆 **My Professional Acheievment**
Awarded the highest rating"Outstanding"in three consecutive appraisalcycles inTata Elxsi

🏆 **My Academic Achievement**
Final year academic project "Hexapod" was selected for the finals in State level competition

❤️ **Martial Arts**
Black Belt holder in Shito-Ryu style of Karate

EDUCATION

Course in Embedded Systems
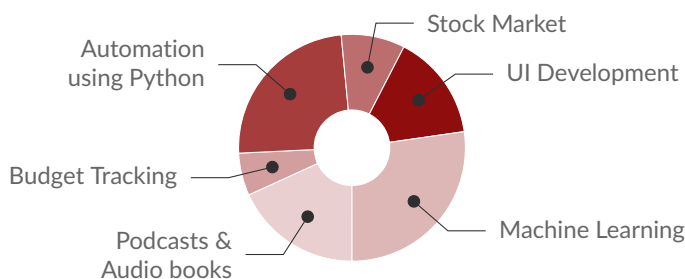**Vector India Institute, Bangalore, Karnataka**

📅 2014

B.Tech (ECE)
**Govt. College of Engineering Cherthala,
Cochin University Of Science and Technology, Kerala**

📅 2010 - 2014

INTERESTS

- Stock Market
- UI Development
- Machine Learning
- Podcasts & Audio books
- Budget Tracking
- Automation using Python

MY LIFE PHILOSOPHY

"Quality is not an act; it is a habit."

STRENGTHS

Team Player   Passionate Programmer
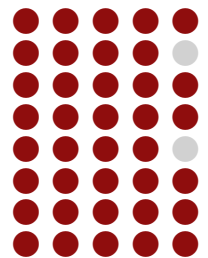Fast Learner   Hard-working   Eye for detail

SKILLS

- **Machine Learning Frameworks**

Tensorflow	●●●●○
Scikit-learn	●●●●●
NLTK	●●●○○

- **Visualisation & Data Processing**

Pandas	●●●●●
Numpy	●●●●○
Flask	●●●●●
Bokeh	●●●●●
Plotly	●●●●○
Grafana	●●●●●
Twitter Bootstrap	●●●●●
PyQt/PySide	●●●●●

- **Continuous Integration & Test Automation**

Jenkins	●●●●○
Robot Framework	●●●●●

- **Devops**

Docker	●●●●○
Ansible	●●●●○

LANGUAGES

English	●●●●●
Malayalam	●●●●●
Hindi	●●●○○

PROJECTS

Pedestrian Detection & Characterization System
2016-2017

- The objective of the project is to use Deep learning based intelligent algorithms for Driver Assistance and feature addition to Autonomous driving platform
- Development of Deep learning algorithm
- Integration and testing with other modules providing additional ADAS features
- Testing and deployment of the ML model in a NVidia Jetson TX1 platform

Battery Management System
2020 - 2021

- The objective of the project is to create an intelligent Battery Management System for Electric Vehicles
- Initial prototype for testing SPI communication between BMS master controller and a slave board using Raspberry Pi. Create Machine learning algorithms that predict the age and SOC of the battery cell. Creating a GUI and test-suite for the project

Lidargen
2018-2019

- The objective of the project was to create a tool that would simulate the actual output from a LIDAR sensor. The tool takes three dimensional CAD objects as input and generates corresponding pointcloud. The User is given the freedom to place and orient the multiple meshes to create a virtual scenario
- To mathematical model the behavior of Lidar and simulate the same using Ray Casting. Designing a Qt based user interface.

UAV Based Driver View Enhancement
2017 - 2018

- To develop a proof of concept, using a Drone to enhance the view of the Driver and cover blind spots for a larger area around the vehicle
- Designing a State Machine to control the Drone, Create a web application as a User interface using Python as a back-end