

MS Subaan

A B.Tech graduate with hands-on experience as a Graduate Apprentice at the Centre for Development of Advanced Computing (C-DAC), Thiruvananthapuram, within the Intelligent Transportation and Networking Group. Skilled in developing scalable traffic management solutions leveraging artificial intelligence, machine learning, and real-time data processing. Passionate about smart mobility and data-driven innovations aimed at improving the efficiency and sustainability of urban transportation systems.

Work Experience

Graduate Apprentice, C-DAC Thiruvananthapuram

Aug 2024 - Present

- Contributing to R&D initiatives in smart traffic management and intelligent transport systems.
- Engineered a real-time traffic monitoring dashboard using Django, Grafana, and Prometheus.
- Developed interactive web tools for traffic planning and simulation.
- Applied machine learning, neural networks, and reinforcement learning for predictive analytics and traffic optimization.

Robotics Instructor, Techosa

May 2024– Aug 2024

- Delivered engaging, hands-on robotics workshops focused on Arduino, Python, and sensor applications.
- Designed and implemented STEM-based learning modules to enhance students problem-solving and technical capabilities.

Educational Background

B.Tech in Computer Science and Engineering

APJ Abdul Kalam Technological University

Aug 2019– Aug 2023

Key Projects

Flood Forecasting System

Designed a machine learning pipeline using Python and TensorFlow to predict flood risks with 80% accuracy. Integrated satellite imagery, meteorological data, and historical flood records to improve disaster readiness.

Digi-Pass Hospital Management System

Developed a secure, contactless web application for hospital visitor management. Streamlined check-in processes with real-time authentication and intuitive user interface.

Contact

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Skills

Technical Skills

- Python
- SQL
- Machine Learning
- Data Analysis
- Java Script
- Git
- Documentation

Tools/Software

- Django
- Grafana
- Prometheus
- SUMO Traffic Simulator
- Tensorflow
- Pandas