MS Subaan

phone +91-9544337075 | envelope mssubaan@gmail.com | linkedin linkedin.com/in/mssubaan | github github.com/MS1308

1 Professional Summary

Graduate Apprentice at the Centre for Development of Advanced Computing (C-DAC), Thiruvananthapuram, working within the Intelligent Transportation and Networking Group. Passionate about smart mobility and data-driven innovation in urban transport systems. Actively involved in the development of scalable traffic management solutions leveraging AI, machine learning, and real-time data processing.

2 Education

B.Tech in Computer Science *Aug 2019 – Aug 2023*
APJ Abdul Kalam Technological University *India*

3 Professional Experience

Graduate Apprentice, Intelligent Transportation and Networking Group *Aug 2024 – Present*
Centre for Development of Advanced Computing (C-DAC) *Thiruvananthapuram, India*

· 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 *May 2024 – Aug 2024*
Techosa *India*

· Delivered engaging, hands-on robotics workshops focused on Arduino, Python, and sensor applications.

· Designed and implemented STEM-based learning modules to enhance student problem-solving and technical capabilities.

4 Technical Skills

· **Languages & Databases**: Python, SQL (PostgreSQL)

· **Frameworks & Tools**: Django, Grafana, Prometheus

· **Machine Learning**: Data Analysis, Predictive Modeling, Reinforcement Learning

· **Domain Knowledge**: Traffic Simulation, Urban Mobility, Smart City Systems

· **Other**: Git, Technical Documentation, REST APIs

5 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.
Python, TensorFlow, Machine Learning

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.
Web Development, Django, UI/UX