

[Your Full Name]

[Your Address] | [Your Phone Number] | [Your Email] | [LinkedIn] | [GitHub/Portfolio]

OBJECTIVE

Enthusiastic and detail-oriented individual seeking a position in an IoT and AI-driven traffic optimization project. Passionate about smart infrastructure, real-time systems, and using technology to build sustainable and intelligent cities.

EDUCATION

Bachelor of Technology in [Your Major]

[Your University Name], [City, Country]

Month Year – Month Year

- CGPA: [Your CGPA]
 - Relevant Courses: Embedded Systems, Machine Learning, Intelligent Transportation Systems, Data Structures, Wireless Sensor Networks
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TECHNICAL SKILLS

- **Programming:** Python, C/C++, JavaScript
 - **IoT & Hardware:** Arduino, Raspberry Pi, ESP32, MQTT, LoRa
 - **Machine Learning & Data:** scikit-learn, TensorFlow, Pandas, NumPy
 - **Tools & Platforms:** Node-RED, MATLAB, Docker, AWS IoT Core
 - **Networking & Protocols:** HTTP, MQTT, CoAP, REST APIs
 - **Version Control:** Git, GitHub
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PROJECTS

Smart Traffic Management System using IoT and AI

Final Year Project – [Your College]

- Deployed sensor nodes at intersections to collect real-time traffic density data.
- Designed an edge-processing pipeline using ESP32 and MQTT protocol.
- Trained a machine learning model to dynamically adjust traffic signals, reducing average wait times by 30%.
- Integrated Google Maps API for real-time traffic visualization.

Vehicle Detection using Computer Vision

- Used OpenCV and YOLO to detect and count vehicles in CCTV footage.
- Implemented frame differencing for motion tracking and congestion estimation.
- Results fed into a dashboard to monitor traffic flow trends.

IoT-based Environmental Monitoring

- Built a sensor suite (PM2.5, CO, temperature, humidity) to monitor urban air quality.
 - Data transmitted via LoRaWAN to a cloud dashboard.
 - Enabled predictive alerts using time-series analysis.
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INTERNSHIPS

AI & IoT Intern – [Company/Institute Name], [Location]

Month Year – Month Year

- Worked on data collection and preprocessing from real-time sensors.
 - Built regression models for predicting traffic congestion levels.
 - Assisted in developing a mobile interface for live traffic updates.
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CERTIFICATIONS

- AI for Everyone – Coursera (by Andrew Ng)
 - IoT & Embedded Systems – NPTEL
 - Machine Learning – Stanford University (Coursera)
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ACHIEVEMENTS

- Winner, Smart City Hackathon – Developed a smart signal timing system.
 - Presented paper on “AI in Intelligent Transport Systems” at [Conference Name].
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EXTRA-CURRICULAR

- Member, Robotics Club – Led the Smart City module team.
- Volunteer, Traffic Awareness Campaign – Collaborated with city police for traffic safety events.