

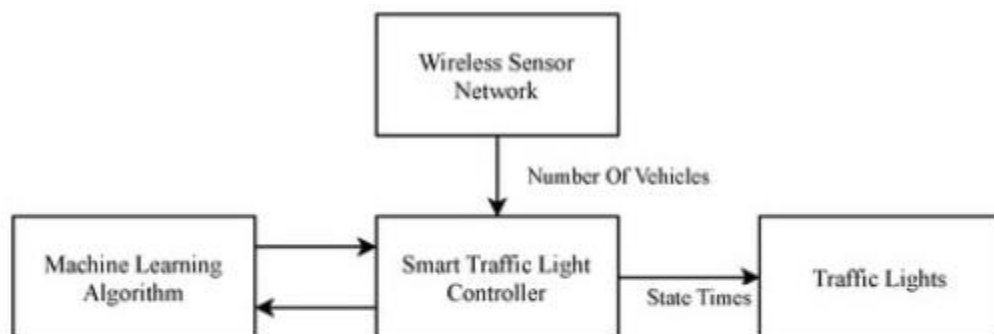
REQUIREMENT ANALYSIS

Technology Stack

Date	28 JUNE 2025
Team ID	LTVIP2025TMID59766
Project Name	TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning
Maximum Marks	4 Marks

Technology Stack:

Layer	Technology
Frontend (UI)	React.js / Angular / Vue.js, HTML5, CSS3, JavaScript, Tailwind CSS / Bootstrap
Backend	Python (Flask/Django/FastAPI), Node.js (optional)
Machine Learning	TensorFlow, Scikit-Learn, PyTorch, OpenCV (if CV used)
Database	PostgreSQL, MongoDB, MySQL
Data Storage	AWS S3, Google Cloud Storage, Azure Blob Storage
Cloud & Deployment	AWS / GCP / Azure, Docker, Kubernetes, CI/CD pipelines
Data Streaming (Optional)	Apache Kafka, MQTT (for real-time IoT sensor data)
Visualization	Plotly, Dash, D3.js, Power BI, Tableau
APIs & Integration	REST APIs, GraphQL, Google Maps API, Weather APIs, Traffic Sensor APIs
Security	OAuth 2.0, JWT, HTTPS, Firewall, Data Encryption



(a)

