

# Venkatesh T

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## OBJECTIVE

Dedicated and motivated graduate with specialization in Artificial Intelligence and Machine Learning, possessing strong foundation in C++, Java and Python, with a keen interest to solve complex problems and a commitment to staying with the advancements in computer science and AI technologies.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (Mysql), JavaScript

**Frameworks/Libraries:** React.js, Node.js, Angular.js, Pandas, Numpy, Matplotlib

**Developer Tools:** Git & Github, VS Code, Eclipse, Google collab, Jupyter Notebook

**Libraries:** pandas, NumPy, Matplotlib

**Core Concepts:** Data Structures and Algorithms, Object Oriented Programming(OOP), Operating Systems

**Soft Skills:** Problem solving, Adaptability, Strong Communication

## EDUCATION

### **K S Institute of Technology**

*Bachelor of Engineering in Artificial Intelligence & Machine Learning | **cgpa:**8.8*

### **Smt YJR PU College**

*Pre-University in Science (PCMB) | **Percentage:**97.5*

### **Tejarsha English Medium High School**

*Class 10 | **Percentage:**91.6*

Bengaluru, Karnataka

*Oct 2021 – July 2025*

Vidyanagar, Karnataka

*June 2019 – May 2021*

Sriramnagar, Karnataka

*June 2018 – May 2019*

## PROJECTS

**Traffic Analysis System(TASS)** / *FastAPI, React.js, Machine Learning, Google Maps API, OSMnx, NetworkX, Pandas, Matplotlib, Docker, Git, GitHub*

- Developed a full-stack intelligent traffic analytics and route optimization platform for Bangalore city.
- Integrated Google Maps and OSMnx APIs to provide real-time and historical traffic-aware route suggestions.
- Designed and trained a machine learning model to predict traffic volume trends using historical city-wide data.
- Implemented a modern, interactive frontend in React.js for seamless route selection and traffic trend visualization.

**MedTrack** / *MERN stack, React.js, Node.js, Express, MongoDB, JWT, CSS, Git, Github*

- Developed a full-stack web app to track medicine inventory for households and pharmacies
- Enabled automated expiry alerts to reduce medicine waste and improve health safety.
- Implemented secure authentication using JWT for user login and access control.
- Integrated scheduled notifications to alert users before medicine expiry.

**SmartHome** | *ESP32, MicroPython, IoT, Sensors, Actuators, Wi-Fi, Git, Github*

- Designed and developed a home automation system using ESP32 and Micropython to remotely control appliances like lights and fans via Wi-Fi enhancing convenience and energy efficiency.
- Integrated sensors and actuators for real time automation, including temperature monitoring to trigger alerts when the ambient temperature exceeds a predefined threshold, ensuring safety and awareness.

## INTERNSHIPS AND TRAININGS

### **IoT Intern**

*Cranes Varsity*

Nov 2023 – Jan 2024

Bengaluru, Karnataka

- Hands on experience with Python, Micropython, Sensors, Microcontroller, and IoT tools.
- Built real time IoT project using ESP32 with sensor integration and microcontroller programming.
- Implemented MQTT protocol for seamless communication between IoT devices, cloud and the user.