

# Vishwanatham Vishnu Kumar

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## ASPIRING IoT DEVELOPER

I'm a passionate IoT Developer with experience in building smart, connected systems using sensors, microcontrollers, and cloud platforms. Currently in my 3rd year of B.Tech, I also have strong knowledge in web development, including frontend technologies, and cloud computing. I enjoy exploring new tools, solving real-world problems, and creating scalable, impactful solutions.

## KEY COMPETENCIES

- C/C++
- HTML, CSS, JS
- React.js
- Git and GitHub
- SQL
- Cloud Computing
- Kotlin(Basics)
- Embedded Systems

## EDUCATION & CERTIFICATIONS

### • **KL University(Vaddeswaram)**

Bachelor of Technology (B.Tech) in Internet of Things 2022 - Present  
Cgpa-9.4

### • **Sri Chaitanya Junior College(Kurnool)**

Intermediate Education, MPC(Maths, Physics, Chemistry)  
2020 - 2022  
Percentage - 93%

### • **Vijayanikeath EM School(Panyam)**

SSC Education  
2019 - 2020  
Percentage - 100%

- IBM Python
- Tessolve VLSI
- Salesforce AI

## Projects

### **Street Light Damage Detection**

**Technology Stack:** ESP8266, LDR, GSM Module, Arduino, C++

Designed and developed an IoT-based system to detect damaged or non-functional street lights. The system uses an LDR sensor to monitor ambient light and detect faulty street lights during nighttime. An ESP8266 microcontroller processes the data and triggers a GSM module to send real-time SMS alerts containing the location and status of the fault. This project reduces manual inspections and supports smart city infrastructure by automating maintenance reporting.

### **Driver Drowsiness Detection System**

**Technology Stack:** OpenCV, Python, Haar Cascade, ESP8266, Buzzer, IoT, Eye Aspect Ratio (EAR)

Built a real-time driver drowsiness detection system using OpenCV and facial landmark detection. The system monitors the driver's eye aspect ratio (EAR) using a webcam to detect signs of drowsiness. When drowsiness is detected (e.g., eyes closed for a threshold duration), a buzzer is activated to alert the driver. The system also uses an ESP8266 module to send alerts over Wi-Fi to a remote IoT dashboard, enabling remote monitoring for fleet safety.

**AI-Powered Tourism Advisor**

**Technology Stack: AWS EC2, Lambda, Amplify, S3, HTML/CSS/JS, Machine Learning, REST API**

Built a web-based tourism advisor that recommends travel destinations based on user inputs such as budget, trip type, and transport mode. Hosted the frontend using AWS Amplify and used AWS EC2 to deploy a custom machine learning model. AWS Lambda handled API requests between the web interface and backend. Stored and accessed datasets through AWS S3. The system provides personalized travel recommendations in real-time with a user-friendly interface.

# Additional Information

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**SPOKEN LANGUAGES**

- *English*
- *Hindi*
- *Telugu*

**DEVELOPMENT TOOLS**

- *Android Studio*
- *VSCode*
- *Pycharm*