

Shashank

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EDUCATION

Vellore Institute of Technology, Bhopal

CGPA 8.77/10

B.Tech in Computer Science and Engineering

2022 – 2026

Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Database Management System, Operating System, Computer Networks

PROJECTS

Drowsiness Detection System | *Python, Streamlit, DLib, NumPy, OpenCV, Tensorflow* June 2024

- Implemented a driver monitoring solution using **DLib's** facial landmark detection to track eye aspect ratio and detect drowsiness
- Utilized the **68-facial landmark** extractions to track eye movement patterns, achieving high accuracy in detecting blink rates and prolonged eye closure
- Enhanced the system to achieve up to **98.5% accuracy** in classifying eye states
- Deployed a user-friendly interface using **Streamlit** for real-time monitoring and visualization of drowsiness indicators.

License Plate Detection | *Python, Tensorflow, PyTesseract, NumPy, OpenCV* Nov 2023

- Implemented **YOLOv3** for real-time license plate detection with **98.5% accuracy**, further optimized using Darknet architecture.
- Trained the model on a custom dataset of **5000+ images**, tailored for license plate recognition.
- Integrated **Tesseract OCR** for accurate license plate character recognition.
- Achieved low training loss value **0.0425**, showcasing strong model performance.

TECHNICAL SKILLS

Languages: C++, Java, Python, SQL, JavaScript

Frameworks: React, Node.js, Express, Flask, Material-UI, FastAPI

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ

Libraries: Pandas, NumPy, Matplotlib

ACHIEVEMENTS

Rajasathan Police Hackathon 1.0: National finalist, secured the top 5 position out of 88 in the problem statement

Smart India Hackathon 2024: Secured the top position in internal rounds. Qualified for semi-finals

HackerRank: Achieved the 5 Star Gold badge in C++ *Profile*

Global Computer Olympiad, GOF 2017: National Rank 1, won an INR 5,000 cash prize and goodies worth INR 25,000

CERTIFICATIONS

NPTEL - Cloud Computing: Achieved the silver medal

Coursera - The Bits and Bytes of Computer Networks