Nawaz Warsi

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Education

Lovely Professional University — July 2019 - May 2023
B.Tech : Computer Science And Engineering(CSE) — ***CGPA : 8.08***

Technical Skills

Programming Languages: C, C++, Python, SQL
Technologies/Frameworks: STL, Multithreading, OpenCV, Boost Libraries
Developer Tools: Git, Linux, VS Code, CMake, GDB, AWS
Cloud & Devops: Amazon Web Services (AWS), Docker, Git, GitHub
Core Subjects: Data Structure and Algorithm, Operating System, Networking, Database

Experience

Tata Elxsi — Jun 2023 – Present
Software Engineer — *Bangalore, India*

- C++ Development: Implemented optimized and efficient C++ code for Advanced Driver Assistance Systems (ADAS) and Autonomous Driving (AD) applications.
- Software Development and Testing: Designed, developed, and rigorously tested software components, ensuring high performance and adherence to automotive industry standards.
- Onsite Collaboration: Worked at Mercedes Benz Research and Development India, collaborating with global teams on real-world automotive solutions.
- HIL Validation and Scripting: Developed and automated HIL validation scripts to test ADAS functionalities, ensuring software reliability.
- Vehicle Testing and Scenario Creation: Designed and implemented real-world test scenarios for vehicle testing, improving system accuracy and safety.

Projects

Drowsiness Detection. | *C++, OpenCV, Computer Vision, Machine Learning, Image Processing, Real-Time Systems*

- Developed a real-time driver drowsiness detection system using C++ and OpenCV for continuous face and eye monitoring.
- Implemented machine learning algorithms to accurately detect signs of driver fatigue.
- Integrated real-time audio and visual alerts to notify drivers upon detecting drowsiness.
- Optimized the image processing pipeline to enhance detection speed, reduce false positives, and improve overall system efficiency.

House Easy | *Python, Scikit-Learn, AWS, Flask, RESTful API, Excel, Postman*

- Developed a web application for house price prediction in Bangalore using features like BHK, area, and bathrooms.
- Applied linear regression with Scikit-Learn in Python for accurate price predictions.
- Deployed the model using Flask on an AWS EC2 instance, ensuring scalability and seamless user interaction.
- Enabled real-time predictions via RESTful APIs.

Achievements

- Solved **800+ Data Structures and Algorithmic** problems on coding platform such as **LeetCode** and **GFG**
- Contest Rating: **1660** @ LeetCode
- Secured World Rank **1750** among 34K+ participants in Leetcode Weekly Contest 415, top **5%** of Leetcoders.
- Received **5*** in **C++**, **Problem Solving** and **SQL** by **HackerRank**