Vishesh Saxena

+91-7007690568 visheshsaxena29@gmail.com Linkedin Github Leetcode

Professional Profile

A **Senior Software Engineer** with 3+ years of expertise in building scalable applications and leveraging supervised and unsupervised **machine learning and deep learning** techniques for model training and optimization. Demonstrated track record in developing real-time computer vision solutions using frameworks like OpenCV, Keras, and Pytorch.

Work Experience

Futops Technologies India Pvt. Ltd, Pune: Senior Software Engineer Nov 2021 - Present

- Developed a Smart Traffic System using **YOLOv7** in Pytorch with 69% accuracy for real-time **anomaly detection**, traffic jam identification and vehicle speed monitoring.
- Implemented multi-person pose estimation using **OpenCV DNN** module and **MySQL**, leveraging deep learning for real-time human movement tracking and analysis.
- Developed HTTP live streaming with Nginx to ensure smooth media delivery and real-time data transmission, achieving a latency of 10-12 seconds.
- Developed an automated server monitoring system using OpenCV for object detection, **color segmentation**, and **pattern recognition**, achieving 80% accuracy in LED status detection.

Infosys Limited, Bengaluru: System Engineer Feb 2021 - Nov 2021

- Worked under the Interactive Voice Response project which plans, designs, tracks, and modifies IVR-enabled telecommunications systems to meet the needs of clients.

Education

JSS Academy of Technical Education, Noida: 2016 - 2020

- B.Tech in Department of Electronics and Communication Engineering, GPA: **8.16/10**

Publication

- **Machine Learning approach for Breast Cancer Early Diagnosis**: Taylor and Francis Group July 2021.

Technical Skills

- **Programming Languages**: Python, Shell scripting, Java, C++, SQL .
- **Technical Softwares**: Git, Docker, MATLAB, Nginx.
- **Database Knowledge**: Oracle DBA, MySQL, PostgreSQL.
- **Libraries Knowledge**: Numpy, Pandas, Matplotlib, Keras, OpenCV, Scikit learn, Pytorch, Flask.

Projects Undertaken

- Face Recognition Model Using **Support Vector Machine** and Principal Component Analysis.
- Brain Tumor Detection Using **Color Segmentation** With **KMeans Clustering**.
- Early **breast cancer prognosis** of patients by using a classification approach with different machine learning techniques.
- **Sentiment Analysis** of Movie Reviews based on their Rotten Tomato rating using Keras.