HIMANSHU

LinkedIn ∘ PortFolio ∘ GitHub
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Summary

Skilled in C++, DSA, Python, and Power BI, with expertise in Machine Learning, Deep Learning, NLP. Strong focus on Data Analysis, backed by a solid foundation in Statistics.

Skills

Technical Skills: C++, Python, DSA, Machine Learning, Deep Learning, NLP, OpenCV, GitHub, Stats, Power BI, OS, Computer Networks.

Soft Skills: Communication, Problem-Solving, Team Management, Time Management, Leadership.

Projects

Sign-O-Text   GitHub

Developed a sign language to text converter leveraging **Deep Learning** techniques including **MediaPipe** and **LSTM** networks.

- Captures video input of sign language gestures.
- Processes gestures using **OpenCV** and **MediaPipe**.
- Translates gestures into text using **LSTM** neural networks.
- Achieved high **accuracy** in real-time translation.

Emotion Detection using ResNet50V2 and VGG16   GitHub

Developed an emotion detection system using **deep learning** models.

- Utilized **ResNet50V2** and **VGG16** models for detecting emotions.
- Trained on the **FER2013** dataset containing diverse facial expressions.
- **ResNet50V2** achieved the best performance with an accuracy of **78 percent**.
- Implemented a real-time application using **OpenCV** for facial recognition and detection.

Automatic Number Plate Detection using YOLOv8   GitHub

Utilized a **YOLOv8** model for real-time license plate detection.

- Processed the **Car License Plate Detection** dataset with 433 images of license plates.
- Annotated data using XML files and trained the model over **100 epochs**.
- Deployed the model using **Streamlit** for real-time detection.
- Achieved significant metrics including **mAP@0.5-0.95**.
- Implemented a real-time application using **OpenCV** for license plate recognition and detection.

Education

2021 - 2025	B.Tech at **JC Bose Ust YMCA Faridabad**	Up to 5th Sem (CGPA : 7.7)
2020 - 2021	Class 12th CBSE Board	(SPS Rewari)
2018 - 2019	Class 10th CBSE Board	(SPS Rewari)

Achievements

- **Top 8 percent** on Leetcode with a Rating of **1780+**.
- Secured **Global Rank 923** out of **28000+** participants in Weekly Contest 368 on LeetCode.
- Among the **Top 3000** students to get selected for **Amazon ML Summer School'24**.