

HIMANSHU

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Education

JC Bose UST YMCA

Expected 2025

Bachelor of Technology in Computer Science with Specialization in Data Science

Relevant Coursework

Core Computer Science: Data Structures, Algorithms Analysis, DBMS, OOPS, Operating System, Computer Networks.

ML and AI: Machine Learning, Statistics, Deep Learning, NLP, Artificial Intelligence.

Projects

Sign-O-Text | GitHub

- Developed an innovative application to translate sign language model using **MediaPipe** and **LSTM**, significantly enhancing communication for the hearing impaired.
- Constructed a custom dataset with 30 videos for each sign, each video being 10 seconds long at 24 frames per second, totaling **7,200 frames per sign**.
- Optimized gesture recognition accuracy by **15%** using **OpenCV** and **MediaPipe**.
- Translated gestures into text using **LSTM** neural networks, achieving **60%** accuracy in real-time translation.
- Implemented a user-friendly interface to allow seamless real-time sign language translation, enhancing accessibility and user experience.

Emotion Detection using ResNet50V2 and VGG16 | GitHub

- Designed an emotion detection system capable of recognizing human emotions from facial expressions using advanced **Deep Learning** models.
- Implemented **ResNet50V2** and **VGG16** models, reducing training time by **20%**.
- Trained on the **FER2013** dataset with **35,887 images** of facial expressions.
- Achieved **78%** accuracy with **ResNet50V2**, processing **1,000 images per second**.

Automatic Number Plate Detection using YOLOv8 | GitHub

- Developed a real-time number plate detection system leveraging **YOLOv8** for enhanced security and surveillance applications.
- Processed the Car License Plate Detection dataset with **433 images**, achieving **83%** detection accuracy.
- Trained the model over **100 epochs**, achieving **mAP@0.5-0.95**.
- Deployed the model using **Streamlit** for real-time detection, handling **50 detections per second**.

Skills

Programming Languages: C++, Python

Machine Learning & AI: Machine Learning, Deep Learning, NLP, OpenCV

Software Development: DSA, GitHub, Operating Systems, Computer Networks

Data Analysis & Visualization: SQL, PowerBI, Statistics

Soft Skills: Communication, Team Management, Leadership

Achievements

LeetCode: Achieved a **Top 8%** ranking on LeetCode with a rating of **1790+**, solving over **600 problems**.

Weekly Contest 368: Secured Global **Rank 923** in Weekly Contest 368 out of **28,000+** participants on LeetCode.

Amazon ML Summer School: Selected among the **Top 3000** students for Amazon ML Summer School'24, from over 50,000+ applicants.

Extracurricular Activities

IEEE YMCA: Tech Media Coordinator at IEEE YMCA SB.

Teaching Initiat: Supported in teaching needy students as part of a social initiative.

Captain of the Volleyball Team in Eklavya Club: Led the team to victory in **6** different tournaments.