

Yuvraj Singh

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Education

Vellore Institute of Technology, Bhopal
Btech in Computer Science

Sept 2022 – May 2026

Technologies

Languages: Python, Java, C, C++, SQL, JavaScript, HTML, CSS
Other: Git — GitHub (Version control), Langchain (for building LLM frameworks/projects) , MySQL (Database Management) , Linux , Pytorch , TensorFlow

Certifications

GEN AI using IBM Watsonx by IBM Career Education Program

Overview_of_Geocomputation_and_Geo-web_services.152.2024 by Indian Institute of Remote Sensing (IIRS), Indian Space Research Organization (ISRO)

Extracurricular Activities

Solved 150+ problems on Leetcode

Took part in HackOn With Amazon - Season 5

Passed the **GitHub Foundations** certification exam validates subject matter expertise by measuring entry-level skills with GitHub basics like repositories, commits, branching, markdowns, and project management.

Projects

AUTOCAR 📄 — A Self Driving Car, Computer Vision Project

- Preprocessed dataset of over **500+ driving images**, applying data augmentation strategies like flipping, scaling, and rotation to expand the training set.
- Designed a custom **convolutional neural network architecture** to classify steering commands based on **Nvidia's End to End Learning for Self-Driving Cars Research Paper** 📄.
- Achieved **94%** accuracy on a held-out test set, demonstrating the model's ability to accurately predict appropriate driving actions based on dataset given used to train the model.

STOCK PRICE PREDICTION MODEL 📄 — Based on LSTM Neural Network

- Engineered an LSTM neural network model to forecast 30-day stock price movements, achieving an average Mean Squared Error of **96%** on test data
- Developed a Sequential architecture with Dense and LSTM layers, incorporating time-series analysis techniques
- Created dynamic visualizations using Matplotlib to analyze predictions against actual stock performance

SMARTMERGE 📄 — AI Powered Merge Conflict Resolver and Branch Merger

Ongoing

- Building a AI Powered GitHub merge conflict resolver and branch merger.
- Tools Used: Python, PYQT, GEMINI AI, GITHUB REST API

YouTube Video Summarizer Using FAISS and Google Gemini 📄

- An end-to-end, retrieval-augmented generation system that lets users ask natural-language questions about any YouTube video and receive precise, context-aware answers drawn solely from the video's transcript.
- Technologies & Tools: Python, Streamlit, LangChain, FAISS, Google Generative AI Embeddings (Gemini),

YouTube Transcript API