Snehal Gullapudi

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Education

Vellore Institute of Technology, Amaravathi

–B.Tech in Computer Science and Engineering (AI & ML) CGPA: 8.96 Sep 2022- Present

FIIJEE Junior College

– Intermediate (M.P.C) Telangana State Board Percentage: 93.4 June 2022

Cal Public School

– 10th Grade (CBSE) Percentage: 91 May 2020

Projects

Stock Market Prediction with Sentiment Analysis

- Developed a stock market prediction system using LSTM and Random Forest, leveraging sentiment analysis from Reddit and Twitter via VADER.
- Integrated Yahoo Finance data to enhance trend forecasting by correlating stock prices with public sentiment.

Human Action Detection

- Developed a human action recognition system using custom ConvLSTM and LRCN architectures to model spatiotemporal dependencies in video data, achieving 92% classification accuracy.
- Designed a video processing pipeline with frame extraction and sequence modeling, enabling real-time action prediction through a locally hosted interface.

RAG-Based Document QA System

- Built a RAG pipeline using LangChain, FAISS, and OpenAI embeddings for private document Q&A.
- Improved retrieval with multi-query, query decomposition, and RAG fusion; traced flow using LangSmith.

Skills

Programming: Python, Java, SQL, JavaScript
ML & AI: TensorFlow, Keras, PyTorch, Scikit-learn, Transformers
Data: Pandas, NumPy, Matplotlib, R
Cloud & DevOps: AWS (EC2, S3, Lambda, SageMaker), Docker, Git
Web: Flask, Node.js
Databases: MySQL, MongoDB

Certifications

- AWS Certified Cloud Practitioner — 2025
- Google TensorFlow Developer — 2024
- Google Generative AI — 2024
- Microsoft Cloud Skills Challenge (Student Ambassador's Program)-2024
- IBM Enterprise AI & Data Science— 2023
- Web Development — 2023
- IBM Design Thinking — 2023
- Economic Data Analysis in R & Report Writing — 2025

Achievements

- Dean's List for academic excellence (CGPA > 8.5) for 6 consecutive semesters
- All India Rank 12, T.I.M.E. National Scholarship Test
- Scored 100% in CBSE Class 10 Mathematics examination