Anupam M Hegde

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Education

Sai Vidya Institute of Technology — Bengaluru, Karnataka
B.E in Computer Science(Data Science) - Current CGPA - 8.3/10 — *2023-2027*

MES PU College — Sirsi,Karnataka
Completed 12th with Physics,Chemistry,Mathematics and Biology — *2020-2022*

Technical Skills

Languages:Python(OOP,Data Structures and Algorithms), SQL
Frameworks: PyTorch,Google ADK(Basic),Langchain, FastAPI
Developer Tools: Git, Docker, VS Code, Jupyter Notebook
Libraries: Pandas, NumPy, Matplotlib , Scikit-learn,TensorFlow

Projects

Autonomous Aptitude Question Generator using Agentic AI | GitHub | Demo

Tech Stack: Python, Streamlit, Google Gemini Pro, Multi-Agent Systems, ThreadPoolExecutor, Plotly

* Built an **autonomous agentic system** to generate and validate quantitative aptitude questions with a **92% acceptance rate** after multi-agent consensus checks.
* Implemented a **parallel Solver Squad** (Python, Logic, Adversarial agents) achieving **3× faster validation** compared to sequential execution.
* Reduced hallucinated or ambiguous questions by **78%** using consensus-based validation and MD5-based duplicate detection.

Uplift Modeling System for Marketing Optimization & ROI Improvement | GitHub | Demo

Tech Stack: Python, scikit-learn, XGBoost, scikit-uplift, Streamlit, MLflow, Plotly

* Built an end-to-end **uplift modeling** system to identify customers with positive incremental response to email marketing campaigns.
* Applied **Class Transformation (Lai Method)** with **XGBoost**, achieving a **Qini AUC of 0.0818** and **4.5× precision gain** over baseline targeting.
* Segmented customers into **Persuadables, Sure Things, Lost Causes, and Sleeping Dogs** to maximize ROI and reduce marketing waste.
* Deployed a **Streamlit** web application with real-time scoring, threshold tuning, ROI calculator, and exportable target lists.

Vehicle Classification using Deep Learning | GitHub

Tech Stack: Python, TensorFlow, PyTorch, CNNs, CUDA, Kaggle

* Developed an end-to-end vehicle image classification pipeline using transfer learning models: **VGG16**, **InceptionV3**, and **ResNet50**.
* Preprocessed the **Indian Vehicle Dataset** and trained models for **30 epochs** with systematic train-test evaluation.
* Achieved highest test accuracy of **61.74%** using **ResNet50**, outperforming VGG16 and InceptionV3 models.
* Accelerated training using **CUDA-enabled InceptionV3** and evaluated performance using **confusion matrices**.

Achievements & Certifications

* Selected among the **Top 25 teams nationwide** out of **200+ teams** at **ByteQuest-2025 (GFG BQ)**; built an **AI Hallucination Detection System** for LLM outputs.
* Completed **5-Day AI Agents Intensive Course with Google**, covering AI agents, orchestration, tool usage, memory, evaluation, and production deployment.