

YASH MHASKAR

Pune, Maharashtra, India

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Education

D.Y.Patil College Of Engineering

Nov 2022 - June 2026

Bachelor of Engineering in A.I.D.S(CGPA of 8.41)

Pune, India

Projects

Stock News Sentiment Analysis Platform | *Langchain, Pytorch, chromadb, Gemini* | [GitHub](#)

- Engineered a **sentiment analysis** platform that processes over **500** news articles daily, enabling users to extract actionable insights on stock trends through an integrated **AI-powered chatbot** for real-time querying.
- Designed and implemented a **Retrieval-Augmented Generation (RAG)-based AI chatbot** using **Langchain** and **ChromaDB**, leveraging the **Gemini-1.5-Flash LLM** for seamless and accurate information retrieval.
- Enhanced real-time stock analysis by **automating database refresh** workflows, ensuring precise and up-to-date sentiment insights for **200+ stock tickers**.
- Engineered a scalable, **periodic data ingestion pipeline** to scrape news from over **60 financial websites** using **BeautifulSoup**, and applied Llama 3.2 LLM to extract and parse relevant content efficiently.

Agrimate | *pmdarima, Pytorch, Sqlite3, Flask* | [GitHub Live Link](#)

- Developed a predictive time series model using **ARIMA** to forecast regional rainfall patterns across Maharashtra, achieving **90% training accuracy** and **87% testing accuracy** over a dataset of **30+ years of rainfall data**.
- Conducted extensive **feature selection and engineering** on raw time series datasets, reducing dimensionality by **30%** while maintaining prediction accuracy.
- Built a user-friendly web application with **Flask** for rainfall prediction, incorporating secure **user authentication** backed by an **SQLite3** database.

Chatbot for Department of Justice website | *Langchain, NLTK, Flask, Tesseract* | [GitHub](#)

- Designed and developed an intelligent chatbot application utilizing a **Retrieval-Augmented Generation (RAG) pipeline** to handle user queries across multiple document formats, including **scanned PDFs, CSV, and text files**, processing over **500 documents** with high accuracy.
- Integrated advanced **OCR tools (Tesseract)** to extract and analyze text from scanned PDFs, achieving a **90%+ accuracy rate** in text extraction and enabling seamless interaction with unstructured content.
- Leveraged **Natural Language Processing (NLP)** frameworks such as **LangChain** and **Google Generative AI**, supporting multi-language responses and enhancing user query resolution with context-aware insights.
- Built a robust backend using **Flask and a Chroma database**, efficiently indexing and retrieving documents with **sub-second response times** for complex queries.

Achievements

- 1st Place** in the Software category at the **Smart India Hackathon (SIH) Internal College Hackathon**, competing against **50+ teams**.
- Secured **4th Rank** in AI/ML category at the **Vishwakarma University Techfest Hackathon**, among 30+ participants.
- Solved **200+ problems** on **LeetCode**, demonstrating expertise in algorithms and coding.

Profile Links

- [GitHub](#)
- [LeetCode](#)
- [Kaggle](#)
- [Medium](#)

Technical Skills

Languages: Python, C++, SQL

API Development: FastAPI, Flask, Django, Postman

Data Analytics: Excel, PowerBI

Databases: MySQL, MongoDB, SQLite3

CI/CD: GitHub Actions, Docker, Render, Vercel

Version Control: Git, GitHub