

# 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 8.35)

Pune, India

## Experience

AI/ML Intern, Smartcard AI

Nov 2024 – Feb 2025

- Developed and tested **APIs** using **FastAPI**, **Firestore**, and **Qdrant Vector DB**, ensuring efficient data storage and retrieval.
- Designed and implemented **backend solutions** for uploading unstructured data to **cPanel software**.
- Researched and evaluated **quantized open-source LLMs** for optimized **code generation**.
- Created an **MP3-to-PDF conversion pipeline** with integrated **chat functionality**.
- Enhanced **chat-with-PDF capabilities** by enabling interactive **data visualization** with dynamically generated **charts and graphs**.

## Projects

**Stock News Sentiment Analysis Platform** | *Langchain, Pytorch, chromadb, Gemini 1.5 Flash, BeautifulSoup*  
| **GitHub** | Oct 2024 – Dec 2024

- Built 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**.
- Constructed 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, scikit-learn, Sqlite3, Flask, Matplotlib* | **GitHub** | **Live Link** | May 2024 – Jun 2024

- 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, ChromaDB, Google Generative AI* | **GitHub** | Aug 2024 – Sep 2024

- Designed and developed an intelligent chatbot application utilizing a **Retrieval-Augmented Generation (RAG)** architecture 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** 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

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- **1st Rank in Fintech Category** at the **IndovateAI Model Hackathon** held at MKSSS's Cummins College of Engineering For Women.
- **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

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

## Technical Skills

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**Languages:** Python, C++, SQL

**Machine Learning & AI:** Machine Learning, Deep Learning, LLMs, Data Science, Langchain, Vector DBs (Qdrant, ChromaDB)

**Web Development & APIs:** Python (Flask, FastAPI, Django), REST APIs, Postman (API Testing)

**Data Science & Analytics:** Pandas, NumPy, SQL, Excel, Power BI

**Databases:** MySQL, MongoDB, SQLite3, Firestore

**DevOps & CI/CD:** Docker, GitHub Actions, Vercel, Render

**Version Control:** Git, GitHub

**Core Concepts:** Data Structures & Algorithms