

PIYUSH CHOUDHARI

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Projects

Stock News Sentiment Analysis Platform | *Selenium, Langchain, Ollama, Gemini API Platform* | [GitHub](#) 4

- Developed a platform to help users receive a **sentiment analysis** on a news related to a stock and **implemented a chatbot** to query that news.
- Implemented a **real time data fetching pipeline** to fetch news off of **60+ different news websites** using **Selenium** for web scraping. **Llama 3.2 LLM** to parse the relevant news from the HTML response.
- Created a pipeline to get **inference on finBERT** text classification model to receive “**positive**”, “**negative**” or “**neutral**” **classification** on the relevant news.
- Implemented a **RAG based AI Chatbot** using **Langchain** and **ChromaDB** with **Gemini-1.5-Flash LLM** as base to query fetched news.

Mars Weather Data ETL Pipeline | *Java, MongoDB, MySQL, Apache Airflow, Dockers* | [GitHub](#) | [Video Link](#) 4

- Developed an **ETL pipeline** using **Java** to fetch and process Mars weather data from **NASA’s InSight API**, storing it in **MongoDB** for analysis.
- Created an interactive **data visualization dashboard** using **Dash** to analyze and display Mars weather metrics including pressure, temperature, and wind patterns.
- Implemented **Apache Airflow DAGs** to automate the data pipeline, containerized the entire application using **Docker Compose** with multiple services including **Airflow**, **PostgreSQL**, and **Webserver**.
- Developed a **data transformation layer** to convert **MongoDB documents into structured SQL tables**, implementing dynamic table creation with timestamps in **MySQL**.

Pokedex-API | *Python, FastAPI, Postgres, Dockers* | [GitHub](#) | [Video Link](#) 4

- Developed a **RESTful API** to fetch data regarding Pokemons.
- **Scrapped data** from [www.pokemondb.net](#) and **data about 1015 pokemons** was scrapped and stored into csv files. Then it was imported into the **Postgres database** for persistence hosted on **AWS**.
- Uploaded the data to **Kaggle** as an **open-source dataset** received **1200+** downloads and **5000+** views. [Dataset](#)
- Used **FastAPI** to create a server. The routes enable the clients to query the data by **name, species, size, type, abilities and base combat stats**.
- Used **Dockers** to containerize the API service.

Achievements

- 1st Rank In Software Category At SIH Internal College Hackathon
- 2nd Rank At Data Visualization Hackathon - Organized by ISA Club, D.Y.Patil College Of Engineering
- 4th Rank At Visionary Hackathon - Organized by Vishwakarma University And Binghamton University, New York

Leadership Roles

- Organized a bootcamp for 70+ peers, covering topics VCS, Git, Github, Open Source. [Link](#)
- Coordinated an AI Club at college, conducting workshops on machine learning and AI tools.

Technical Skills

Languages: Python, Java, SQL

API Development: FastAPI, Flask, Spring Boot, Postman, Insomnia

Data Analytics: Excel, PowerBI, Tableau

Databases: Sqlite3, PostgreSQL, MySql, MongoDB, ChromaDB

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

Version Control: Git, GitHub

Education

D.Y.Patil College Of Engineering

Bachelor of Engineering in A.I.D.S(CGPA of 8.37)

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