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   **Nov 2022 - June 2026**
Bachelor of Engineering in A.I.D.S(CGPA of 8.37)   *Pune, India*