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 scrape 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.

RecycleNet18 | *Pytorch, Streamlit, Ollama, Langchain* | **GitHub**   4
- Developed a model to classify images of **recyclable items into 30 different categories**. Used a pretrained **Resnet18** and trained a **custom prediction head** consisting of 3 layers.
- Collected data from 2 sources, **70% from kaggle and 30% by web scraping**.
- Obtained **90%** training accuracy and **82%** testing accuracy.
- **Integrated a chatbot** to guide the user on exactly how to recycle the classified item in a sustainable way.

Pokedex-API | *Python, FastAPI, Sqlite3, GitHub Actions* | **GitHub**   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 **Sqlite3 database for persistence**.
- Uploaded the data to **Kaggle** as an **open-source dataset** received **1100+** 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**.
- Configured **GitHub actions workflows** to automate linting using **Pylint** and building the app inside a container.

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

Profile Links

- GitHub
- LeetCode
- GeeksforGeeks
- Hackerrank

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*