

# Piyush Choudhari

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## Technical Skills:

- **Languages:** Python, SQL, Go
  - **API Development:** FastAPI, Django Rest Framework, Postman, Insomnia
  - **Data Analytics:** Excel, PowerBI, Tableau
  - **Databases:** Sqlite3, Postgresql
  - **CI/CD:** GitHub Actions, Docker, Render, Vercel
  - **Version Control:** Git, GitHub
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## Projects:

### Stock News Sentiment Analysis Platform - [GitHub](#)

*Oct 2024*

- Developed a platform to help users **receive news about a particular stock**, receive a **sentiment analysis on that news** 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" analysis** 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.

### AI-Based Resume Screener - [GitHub](#)

*Sep 2024*

- Developed an **AI system** to ingest and query resumes. **Scaled the system to work on 500+ resumes**.
- Implemented a **RAG Pipeline** using **Langchain** and **ChromaDB** to **load, chunk and embed resumes**.
- Integrated **Gemini-1.5-Flash LLM** API and Local **Llama 3.2:3b LLM** (alternative) into the RAG Pipeline.
- Utilised **Flask** to create **backend APIs** to **interface the frontend** with the RAG Pipeline and LLM.

### RecycleNet18 - [GitHub](#)

*Feb 2024 - Mar 2024*

- 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 **20% 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 - [GitHub](#)

*Jul 2024 - Aug 2024*

- Developed a **RESTful API** to fetch data regarding Pokemons.
  - Scrapped data from [www.pokemondb.net](http://www.pokemondb.net) and data about **1015 pokemons** was scrapped and stored into csv files. The data in the csv files was cleaned and transformed. 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**.
  - 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 to ensure it is working.
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## Education:

1. **D.Y.Patil College Of Engineering, Akurdi:** B.E Artificial Intelligence And Data Science
  - 8.3/10 CGPA

*Nov-2022*