

# Piyush Choudhari

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## Technical Skills

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- **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

## Projects

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

- **Streamlined** real-time data ingestion by scraping over **60 news websites** using Selenium, extracting and parsing relevant content with the **Llama 3.2 LLM** for higher accuracy.
- Designed a robust inference pipeline to classify stock news sentiment (**positive**, **negative**, or **neutral**) using the **finBERT text classification model**, ensuring precise insights for users.
- **Engineered** a RAG-based AI Chatbot using Langchain, ChromaDB, and the **Gemini-1.5-Flash LLM**, enabling interactive, query-based access to stock news.

### Mars Weather Data ETL Pipeline - [GitHub](#) | [Video Link](#)

- Built an automated **ETL pipeline in Java** to fetch and process **Mars weather data from NASA's InSight API**, storing it in **MongoDB with 99.9% uptime**.
- Created an interactive **Dash-powered dashboard** to visualise critical metrics like **pressure, temperature, and wind patterns** for data-driven insights.
- **Automated the entire workflow with Apache Airflow DAGs** and containerized the application using **Docker Compose**, integrating services like **PostgreSQL and Web Servers GUI** for seamless operations.
- Transformed **MongoDB data into structured SQL tables** with **dynamic schema creation in MySQL**, improving data analysis and accessibility.

### Pokedex API - [GitHub](#) | [Video Link](#)

- **Developed** a scalable **RESTful API** to query data on **1,015 Pokemon**, enabling query by attributes like name, species, type, size, and abilities.
- **Scraped data** from [www.pokemondb.net](#), exporting to CSV and storing it in a **PostgreSQL database** hosted on **Neon DB on AWS**.
- Published the dataset on **Kaggle**, receiving **1,200+ downloads and 5,000+ views** as an [open source dataset](#).
- Utilised **FastAPI** as the backend server. **Containerized the API with Docker** optimising to get less than **100ms query response times**.

## Achievements

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

## Leadership

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- **AI&ML Lead At IASC Club** - Organized a bootcamp for 70+ peers, covering topics VCS, Git, Github, Open Source. [Link](#)
- **AI&ML Coordinator At IASC Club** - Conducted a 3-day GenAI Workshop for 120+ students, receiving 100+ positive student feedbacks. [Link](#)

## Education

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**D.Y.Patil College Of Engineering, Akurdi**  
Bachelor of Engineering in A.I.D.S(CGPA of 8.37)

**2022-2026**  
Pune, Maharashtra, India