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OM M. PATEL
Python Developer | Data Scientist

Github
Kaggle
linkedIn

Final year computer science student passionate about Development, GenAI, and Data Science, with experience in AI/ML solutions. Eager to revolutionize business operations with my experience and Keen podcast enthusiast.

SKILLS

Languages andDatabases	Python, C, Java, HTML+CSS, MongoDB, Firebase, MySQL, SQLite
Libraries and Framework	Scikit-learn, TensorFlow, Flask, Pandas, NumPy, Matplotlib, Seaborn
Tools	Asana, Jira, Render, Compass, Git, Github, PostMan, Overpass Turbo, AWS EC2
Areas of Interest	Langchain, LLMs, Generative AI, NLP

TECHNICAL EXPERIENCE

Data Science Intern　　　　　　　　　　　　　　　　　　　　　　　　**Mar 2024 — Jul 2024**
Sharperly　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*(Remote) Nigeria*

- Developed a geocoding solution using **Python** (**Flask**, **Geopandas**, etc.), reducing dependency on Google Cloud API and cutting costs upto **55%**.
- Scraped and processed address data using **Overpass Turbo**, **Beautiful Soup**, and **Selenium**.
- Performed **exploratory data analysis** (EDA) on **geospatial datasets**, Contributed to training machine learning models for geospatial analysis by leveraging **KNN** and other algorithms.
- Optimized **MongoDB** databases to store data, and further contributed to authentication and **credit management systems** for APIs.
- Collaborated code workflows with **GitHub**, coordinated tasks and documentation using **Jira** and **Confluence**

Android Developer Intern　　　　　　　　　　　　　　　　　　　　　**May 2023 — Aug 2023**
Patchmax Ltd.　　　　　　　　　　　　　　　　　　　　　　　　　　*Ahmedabad, Gujarat*

- Assisted in UI improvements and **API integration**, leading to a 23% increase in user engagement.
- Implemented web scraping using **Python**, **Beautiful Soup**, and **Selenium**, increasing data acquisition efficiency by 18%.
- Created apps in **Kotlin**, utilizing coroutines for efficient asynchronous operations, boosting user engagement by 30% and reducing crash rates by **20%**.
- Integrated **Firebase** and essential libraries like Glide, Retrofit thus enhanced performance by **40%**.

PROJECT

Driver Pay Forecasting : *Uber NYC Driver Pay Prediction*　　　　　　　　**Feb 2024 - May 2024**
- Implemented **machine learning** and **deep learning** models (ANN, Random Forest, LSTM, BiLSTM, LSTM+GRU) and performed **comparative analysis** for pay prediction
- Analyzed and Visualized factors impacting Uber driver pay through features like date, time, location, and other trip details using **PowerBI**.

ChatPdf AI : *Chat with Your PDF*　　　　　　　　　　　　　　　　　**Dec 2023 - Feb 2024**
- Enhanced productivity and decision-making in document analysis with **89%** accuracy using NLP, **Streamlit**, **LangChain**, **PyPDF2**, and **FAISS** for an efficient retrieval system.(**RAG System**).
- Transformed document analysis with **Google Generative AI**, deploying the advanced system on **Streamlit Cloud** and enhancing the retrieval process.

Autograder : *Precision in Every Grade*　　　　　　　　　　　　　　　**Sept 2023 - Nov 2023**
- **Led a six-member team** to develop an automated grading system, using React for the front end, **Python** with **Flask** for model integration, backend logic, and **MongoDB** for data storage.
- Achieved over **80%** accuracy in grading by analyzing **NLP** with BERT-Uncased and employing **Spacy** and **PyTesseract** for image processing.

EDUCATION

Bachelor of Technology in Computer Science and Engineering　　　　　　　　**CGPA: 8.63**
Pandit Deendayal Energy University, Gandhinagar　　　　　　　　　　　　**Nov 2021 - May 2025**

ACTIVITIES

Indian Weather Prediction: Ranked in Top-5 for Kaggle's ML Olympiad (Forecasting India's Weather)	**April 2024 - May 2024**
President, Tattvam - The Sanskrit Club of PDEU	June 2023 - June 2024
Graphic Design Head, Tattvam - The Sanskrit Club of PDEU	May 2022 - May 2023