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OMKUMAR MITESHBHAI PATEL

Github
Kaggle
linkedIn

I am a Final-year computer science student passionate about Development and Data Science, with experience in AI/ML solutions. Eager to enhance business operations with my experience. Furthermore, I am an avid podcast listener.

EDUCATION

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

TECHNICAL EXPERIENCE

Data Engineer   **Aug 2024 — Present**
Sharperly   *(Remote) Nigeria*

- Enhanced and managed scalable **data pipelines** for geospatial data processing, improving data handling efficiency by **33%**.
- Contributed to **ETL processes** to streamline data flows, facilitating efficient training of machine learning models.
- Led integration efforts to support the platform's credit management and routing workflows.
- Collaborated with cross-functional teams using **GitHub**, **Jira**, and **Confluence** to drive technical documentation and project alignment.

Data Science Intern   **Mar 2024 — Present**
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**.
- Optimized **MongoDB** databases to store data, and further contributed to authentication and **credit management systems** for APIs.

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.

SKILLS

Languages and Databases	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, Docker, AWS EC2
Areas of Interest	NLP, Computer Vision, Langchain, LLMs.

EXTRACURRICULARS

- **Presented** paper titled *"Automated Sleep Stage Classification using Machine Intelligence Techniques"* at ADCIS 2024, BITS Pilani (accepted/presented/under press in Springer Journal) — *September 2024*
- **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 - May 2024
- Civic and Social Internship at Vardaan Foundation, Vadodara. Volunteered to teach digital literacy to underprivileged students — June 2022 - July 2022
- **Graphic Design Head**, Tattvam - The Sanskrit Club of PDEU — May 2022 - May 2023