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OM M. PATEL

Data Scientist

Github
Kaggle
linkedIn

Dynamic computer science student passionate about Gen AI, Data Science, with experience in AI/ML solutions. Eager to revolutionize business operations with LLM-based analytics and Keen podcast enthusiast.

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, Confluence, Compass, Git, Github, Google Collab, GCP, Jira, PostMan, WorkBench
Emerging Technologies	Langchain, LLMs, Generative AI, NLP

TECHNICAL EXPERIENCE

Data Science Intern Feb 2024 — Jul 2024
Sharperly (Remote) Nigeria

- Developed a geocoding solution using **Python (Flask, Geopandas, etc.)**, reducing dependency on Google Cloud API and cutting costs by **65%**.
- Created a **MongoDB database** to store geo-coordinates, reducing server load by **134%**.
- Enhanced location accuracy with a proximity search algorithm, ensuring recognition within a **10-meter** range.
- Conducted **data scraping** for addresses using OpenStreetMap and **Overpass Turbo**.
- Managed code workflows with **GitHub**, and coordinated tasks and documentation using **Jira** and **Confluence**.

Android Developer Intern May 2023 — August 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, BeautifulSoup, 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 and Retrofit, enhancing application performance by 40%.

PROJECT

TEXT2SQL : Access Your Database in Your Language Mar 2024 - Present

- Streamlined Text2SQL app with **LangChain** and **GeminiPro** for easy **SQL** query generation, reducing **40%** manual query writing time.
- Refined user-friendly experience using **Streamlit**.
- Designed advanced natural language prompts, transforming input into precise SQL queries.

CHATPDF AI : Chat with Your PDF Dec 2023 - Feb 2024

- Spearheaded improvements to enhance productivity and decision-making for users involved in document analysis tasks, achieving an accuracy rate of **89%**.
- Built using **NLP, Streamlit, LangChain, PyPDF2**, and **FAISS** for efficient document analysis and retrieval (**RAG System**).
- Systematized the utilization of **Google Generative AI**, deploying the system on **Streamlit Cloud**.

AUTOGRADER : Precision in Every Grade Sept 2023 - Nov 2023

- Led a six-member team** in developing AutoGrader, an automated grading system.
- Utilized React in front-end, **Python** with **Flask** for backend logic, and MongoDB for flexible data storage.
- Analyzed **NLP** grading with **BERT-Uncased**, employing **Spacy & PyTesseract** for image processing to ensure above **80%** accuracy in assessing diverse exam formats.
- Positioned the project as a **time-cost-effective** solution for educators, saving them **15%** of their time.

EDUCATION

Bachelor of Technology in Computer Science and Engineering CGPA: 8.65
Pandit Deendayal Energy University, Gandhinagar November 2021 – May 2025

ACTIVITIES

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