Jatin Patidar

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Objective

Computer Science graduate with a focus on Data Engineering and AI. Experienced in building full-stack ML pipelines (Python, Docker) and performing advanced database analysis (SQL). Passionate about solving business problems through scalable data solutions.

Education

Medicaps University Indore, India
Bachelor of Technology in Computer Science (CGPA: 7.93) *2021 – 2025*

Technical Skills

Languages: Python, SQL (MySQL)
Data Libraries: Pandas, NumPy, Matplotlib
Tools & Cloud: Docker, AWS, Git, GitHub
Concepts: Machine Learning, Data Visualization, OOP, DBMS

Experience

Neural Networks Research Intern June 2024 – July 2024
Medicaps University *Indore, India*

- Conducted research on Automatic Image Captioning using Graph Convolutional Neural Networks (GCNN).
- Optimized neural network architecture to reduce inference time by 15%, improving real-time processing capabilities.
- Improved model accuracy by 20% based on standard evaluation metrics: BLEU (0.48), METEOR (0.32), and CIDEr (1.15).

Projects

Customer Churn Prediction Model | *Python, Docker, AWS* GitHub

- Built an end-to-end machine learning pipeline to predict customer churn, aiming to improve business retention.
- Engineered an automated data preprocessing workflow to handle missing values and categorical encoding.
- Containerized the application using Docker to ensure consistency across development and production.
- Deployed the final model on AWS to demonstrate scalable, real-time prediction capabilities.

Digital Music Store Analysis | *SQL, MySQL, Docker* GitHub

- Simulated an enterprise data environment by deploying a MySQL database within a Docker container.
- Executed complex SQL queries using Common Table Expressions (CTEs) and Recursive Joins to solve business questions.
- Analyzed sales trends and Customer Lifetime Value (CLV) to identify key revenue drivers and VIP clients.

Visualizing Covid-19 Trends | *Python, Pandas, Matplotlib* GitHub

- Analyzed a dataset of over 50,000 records to track infection rates, recovery trends, and vaccination progress.
- Optimized the data visualization pipeline, achieving a 30% reduction in data processing time.
- Created interactive dashboards to facilitate data-driven decision-making for tracking pandemic spreads.

Certifications

Python for Data Science – IBM
Introduction to Generative AI – Google Cloud Skills Boost
Machine Learning – Coursera
Geoprocessing for Geographical Data – ISRO (IIRS)