Jatin Patidar

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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 & Version Control: Docker, 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* Dec 2025

- Built an end-to-end machine learning pipeline to predict customer churn, aiming to improve retention rates.
- Developed the model using Python, performing feature engineering on customer datasets.
- Containerized the application using Docker to ensure consistency across development and production environments.
- Implemented scalable model deployment strategies for real-time prediction capabilities.

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

- 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.

Hybrid Recommendation System | *Python, NumPy, Pandas*

- Designed a hybrid recommendation engine combining content-based and collaborative filtering techniques.
- Achieved a precision score of 0.72, representing a 20% improvement in accuracy over traditional methods.
- Enhanced potential user engagement metrics by delivering personalized content suggestions.

CERTIFICATIONS

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