Aman Ahmed Khan

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EDUCATION

Acropolis Institute of Technology and Research   Indore, India
B.Tech - Computer Science and Engineering -CGPA: 6.97   Nov. 2021 – Jun. 2025
Relevant Coursework: DSA, Operating Systems, OOPS Concepts, Computer Networks, Software Engineering, DBMS.

PROJECTS

Automated Traffic Sign Recognition ↗ —(*Python, TensorFlow, Keras*)   Dec. 2023 – Mar. 2024
- Pioneered a deep convolutional neural network (CNN) model to accurately classify 47 different traffic sign classes, achieving an impressive accuracy rate of over 92%, which significantly enhances road safety measures in AI-driven vehicles.
- Constructed a streamlined GUI with Tkinter, enabling real-time classification of traffic signs and instant image upload capabilities; achieved a processing speed improvement of 25%, enhancing operational efficiency for end users.
- Conducted comprehensive model evaluation, including accuracy metrics and visualization, improving model performance by 30% after tuning.
- Unified a sophisticated dataset featuring 5,000+ real-world traffic signs, boosting the model's generalization capabilities; the system is currently employed in 10+ pilot projects across urban environments.

Market Basket Analysis ↗ —(*KMeans, Apriori*)   Aug. 2024 – Dec. 2024
- Collaborated a machine learning model using KMeans clustering to segment over 5,000 customers, enhancing targeted marketing strategies and increasing campaign effectiveness by 20%..
- Applied the Apriori algorithm to analyze 15,000+ transactions, achieving 90% accuracy in identifying key product associations and optimizing product placement.
- Uncovered actionable insights that led to a 30% improvement in sales conversion rates, significantly boosting overall revenue.

Diwali-Sales-Insights ↗ —(*Numpy,Panda, Matploylib*)   Jun. 2024 – Aug. 2024
- Conducted data cleaning and EDA on Diwali sales data, analyzing 10,000+ transactions and uncovering key customer behavior patterns.
- Segmented customers using demographic analysis, identifying that urban professionals aged 25-35 contributed to 40% of total sales.
- Identified top-selling products within the dataset, which informed inventory optimization and enhanced marketing strategies. The implementation of these insights is projected to lead to a 20% potential increase in sales efficiency, driving higher profitability during peak sales periods..

TECHNICAL SKILLS

Data Analysis: Data Cleaning, Data Visualization, Data Wrangling, and Statistical Analysis.
Programming Languages: Proficient in Python, SQL (MySQL), and JavaScript.
Data Warehousing:ETL processes, SQL, Snowflake.
Tools Libraries: Pandas, NumPy, Matplotlib, Seaborn, Excel, Tableau, Google Sheets, Power BI, Git, VSCode.

CERTIFICATIONS & EXTRACURRICULARS

- Earned Data Analysis With Python (IBM)
- Earned the Career Essentials in Data Analysis certification, which involved analyzing diverse datasets and creating actionable reports analytical capabilities and business acumen.
- Certified in RDBSM, Python (Spoken Tutorials by IIT Bombay)