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
- Developed a deep convolutional neural network (CNN) model to classify 47 different traffic sign classes, achieving an accuracy rate of over 92%.
- Engineered a user-friendly Graphical User Interface (GUI) using Tkinter, enabling real-time traffic sign classification with instant image upload functionality.
- Conducted comprehensive model evaluation, including accuracy metrics and visualization, improving model performance by 30% after tuning.
- Managed and processed a diverse dataset of real-world traffic signs, enhancing the model's generalization and robustness.

Market Basket Analysis with Clustering Algorithms —(*KMeans, Apriori*)   Feb. 2024 – Apr. 2024
- Developed 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.

TECHNICAL SKILLS

Data Analysis: Data Cleaning, Data Visualization,Data Wrangling, Statistical Analysis
Programming Languages: Python, SQL (MySQL)
Data Warehousing::ETL processes, SQL, Snowflake
Developer Tools: Git, VS Code
Web Development:JavaScript, HTML/CSS,
Tools Libraries:Pandas, NumPy, Matplotlib, Seaborn, Excel, Tableau,Google Sheets ,Power BI
Soft Skills: Communication, Problem-Solving, Time Management, Team Collaboration

CERTIFICATIONS

- Earned Data Analysis With Python (IBM)
- Earned Career Essentials in Data Analysis(Microsoft and LinkedIn)
- Certified in RDBSM,Python (Spoken Tutorials by IIT Bombay)
- Introduction to MS Excel (Simplilearn)

ACHIEVEMENTS EXTRACURRICULARS

- Entrepreneurship Awareness Camp Secured Runner-up position
- Basketball Tournament and Annual Sports Fest Competed in various sports events
- Completed the PwC switzerland Virtual Experience in January 2024, gaining practical insights in software engineering.