Aditya Ashok Sharma

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OVERVIEW Data Analyst & Engineer with expertise in Data Mining, SQL, and Business Intelligence. Skilled at analyzing complex datasets to uncover insights, solve problems, and drive business decisions.

EDUCATION

GEORGE MASON UNIVERSITY — May 2025
Master's in Data Analytics Engineering — GPA: 3.74
KISHINCHAND CHELLARAM COLLEGE — August 2022
Bachelor's of Science in Information Technology — GPA: 3.32

SKILLS

Programming Languages: Python, R, Statistics, VBA.
Database Program: PLSQL, SQL, Relational Databases.
Business Analytics Tools: Alteryx, Tableau, Power BI, Word, Excel, PowerPoint.
Methods: Data Integration & Reporting, Data Interpretation, Data Validation, Data Manipulation, Pivot Tables, Data Visualization, VLOOKUP, Data Cleaning, Data Management, and Data Modeling.
Leadership Skills: Verbal & Written Communication, ad hoc analyses, Strategic Thinking, Problem-Solving, Attention to Detail, Self-Starter, Process Improvements, and Quality Assurance.

EXPERIENCE

Data Analyst Intern
Precise Software Inc. Jan 2025-Present

- Focused on developing an AI-powered solution to flag illegal vape sales using web crawlers, image detection, and NLP-based keyword extraction from social media and online marketplaces.
- Implemented YOLO (Ultralytics) in Python to detect faces, vapes, and cartoons in online listings, enhancing automated compliance monitoring.
- Developed NLP models to extract slang keywords from Twitter and various websites, improving the identification of illicit product listings.
- Worked in an Agile environment using JetBrains YouTrack for sprint planning, ensuring efficient collaboration and timely project delivery.

Machine Learning Intern
Curaksha LLP Jan 2023-July 2023

- Focused on overcoming challenges in extracting and analyzing complex datasets to generate business insights at Curaksha LLP. Tasked with improving data extraction techniques and developing models to identify key trends and patterns.
- Developed data workflows using Python libraries to preprocess data, build predictive models, and visualize results while analyzing the significance of predictors.
- Delivered actionable insights that streamlined data analysis, improved trend identification accuracy, and enabled data-driven decision-making within the team.

PROJECTS

DIABETES READMISSION ANALYSIS

- Analyzed treatment records of 100,000 diabetic patients across U.S. hospitals (ICD-10 codes and claims data) to assess medication effectiveness and healthcare industry trends.
- Developed a prediction model using J48 and Multinomial Logistic Regression in Jupyter Notebook to identify effective medications and predict whether patients would be readmitted to the hospital within or after 30 days.
- Achieved 75% prediction accuracy in identifying effective medications, enhancing patient care recommendations, and advancing healthcare analytics.

USED CAR VALUE ANALYSIS

- Analyzed a dataset of 10,000 used vehicles, focusing on key components affecting value.
- Performed Exploratory Data Analysis (EDA) and applied statistical techniques in Alteryx to extract insights and estimate used car prices.
- Demonstrated patterns using data visualization, machine learning, hypothesis testing, and statistical analysis in R Studio, adjusting features to predict new prices.
- Achieved 83% accuracy in price predictions, providing a reliable tool for resale evaluations.

AIRPORT DASHBOARD ANALYSIS: A POWER BI PROJECT

- Analyzed 90,000 San Francisco Airport flight data observations to uncover trends in arrivals and departures.
- Transformed complex flight data analyses into actionable insights and key performance indicators, ensuring data quality and clarity.
- Developed communication dashboards and reports using SQL queries, filtering applications, and integrating KPIs and insights to create the final dashboard.