Mahimna Darji

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SUMMARY

Detail-oriented data professional with hands-on experience in machine learning, data analysis, and predictive modeling. Worked on real-time AQI forecasting, crime trend prediction, and supply chain analytics, combining technical tools with a practical understanding of real-world impact. Comfortable working across structured and unstructured data, building dashboards, and delivering insights that support both product decisions and business goals.

PROFESSIONAL EXPERIENCE

Project 990 Inc.   **January 2025 – Present**
Data Scientist   *Bloomington, Indiana, USA*

- Prepared and cleaned financial grant data from 53 nonprofit organizations, covering records from 2013 to 2021. This helped ensure consistency and allowed for clear time-series and geospatial analysis of donation trends and funding gaps across different regions.
- Designed interactive Tableau dashboards to display donation trends and funding disparities, enabling teams to explore and understand financial patterns influenced by socioeconomic factors.

ManekTech   **May 2024 – August 2024**
Machine Learning Intern   *Ahmedabad, Gujarat, India*

- Developed a model to forecast AQI using historical air quality, weather patterns, and pollutant data. Conducted in-depth analysis across multiple datasets and compared four machine learning models, improving accuracy by 7.6% through tuning and optimization.
- Deployed the final model into a real-time monitoring setup, allowing continuous AQI tracking and early alerts for hazardous pollution levels in urban areas.

Start Tech Academy   **July 2022 – September 2022**
Data Science and Business Analytics Intern   *Ahmedabad, Gujarat, India*

- Developed an image classification model using convolutional neural networks to label visual inputs and applied natural language processing to extract insights from associated text, improving data analysis capabilities
- Managed the project pipeline from dataset preparation to model training and result interpretation for image and text data, ensuring efficient workflow and successful project completion.

PROJECT EXPERIENCE

Supply Chain Optimization Platform   **May 2025 - June 2025**

- Developed a logistics analytics platform with shipment tracking, inventory forecasting, vendor scoring, and cost modeling to generate predictive insights across a simulated U.S. supply chain network.
- Designed custom KPIs such as Efficiency Index and Inventory Stability Score to detect delays, restock risks, and cost anomalies; visualized delivery heatmaps, SKU shortages, and shipment trends using Tableau and Streamlit dashboards with dynamic filters.

LAPD Crime Prediction   **August 2024 - December 2024**

- Built predictive models on 900,000 LAPD crime records and performed spatial and temporal analysis of crime trends. Used stratified sampling to handle data size and visualized results in a Streamlit Dashboard with time series plots, heatmaps, and geospatial clustering.
- The analysis uncovered location-specific risk zones, demographic disparities in victimization, and crime patterns across weeks and months-offering actionable insights for law enforcement, urban policy makers, and community stakeholders.

Book Recommendation System   **January 2023 - April 2023**

- Built a book recommendation system using content-based filtering to suggest books based on genre, author, and user activity. Developed the interface using Python and Flask, with user-friendly navigation and organized genre-wise browsing for easier discovery.
- Added secure user login/signup features and tracked user activity to continuously refine recommendations, making book discovery more relevant and engaging for each user.

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, JavaScript, C, C++
Database & Cloud Platforms: MySQL, PostgreSQL, MongoDB, SQLite, NoSQL, AWS, Azure SQL
Data Engineering & Big Data Tools: Apache Hadoop, Hive, Docker, Git, PyTorch, Pandas, FastAPI, React.Js
Data Visualization: Tableau, Power BI, Streamlit, Plotly, Matplotlib, Seaborn, Gephi, Excel
Machine Learning & AI: TensorFlow, Neural Networks, LLMs, NLP, CNN

EDUCATION

Indiana University, Bloomington   **Aug 2023 – May 2025**
Master of Science in Data Science; CGPA: 3.73   *Bloomington, Indiana, USA*
Indus University   **July 2019 – April 2023**
Bachelor of Technology in Computer Science; CGPA: 3.93   *Ahmedabad, Gujarat, India*