Mahimna Darji

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SUMMARY

Aspiring Data Science professional with a strong foundation in Machine Learning and Computer Science. Experienced in developing real-time AQI prediction systems and image classification models using data-driven techniques. Successfully optimized models to enhance prediction accuracy and integrated them into practical applications. Eager to leverage analytical skills and technical expertise to contribute to impactful solutions across data science, analytics, and engineering domains.

EDUCATION

Indiana University, Bloomington **Aug 2023 – May 2025**
Masters in Data Science; CGPA: 3.73 *Bloomington, Indiana, USA*

Indus University **July 2019 – April 2023**
Bachelors of Technology in Computer Science; CGPA: 3.93 *Ahmedabad, Gujarat, India*

PROFESSIONAL EXPERIENCE

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

- Prepared and cleaned financial data to ensure accuracy and consistency for analysis. This facilitated uncovering trends in charitable giving and identifying disparities across 53 nonprofit organizations using time-series analysis and geospatial mapping on grant records from 2013 to 2021.
- Developed interactive Tableau dashboards to visualize donation patterns, funding disparities, and correlations between nonprofit funding and socioeconomic factors, enhancing stakeholders' understanding of financial trends.

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

- Developed a predictive model to forecast Air Quality Index (AQI) using historical air quality data, weather patterns, and pollutant concentrations. Enhanced the accuracy and efficiency of AQI predictions by optimizing four machine learning models, conducting in-depth data analysis across multiple datasets, and improving model performance by 7.6%.
- Integrated the optimized predictive model into a real-time AQI monitoring system, enabling continuous tracking of pollution levels and providing early warnings for hazardous air conditions.

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 (CNNs) to accurately identify and categorize visual inputs and extended the project by integrating natural language processing to analyze and extract insights from related textual data, including captions and descriptions.

PROJECT EXPERIENCE

Los Angeles Crime Dashboard **August 2024 - December 2024**

- Developed an interactive Streamlit dashboard using over 900,000 LAPD crime records to analyze spatial and temporal trends. Integrated advanced visualizations such as time series plots, density heatmaps, geospatial clustering, and interactive cluster maps. Tackled performance issues by applying stratified sampling and optimized deployment with Google Drive integration.
- 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.

Social Network Platform **January 2024 - May 2024**

- Developed a full-stack social networking platform using React.js for frontend and FastAPI for backend, with MongoDB for data storage. Added key features like user login, profile management, content posting, and real-time chat.
- Containerized the app using Docker and deployed the backend on Render and frontend on Vercel. This ensured smooth, scalable, and reliable performance across environments.

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

- Built a book recommendation system using Python, Flask, HTML/CSS and Content Based filtering Recommender System to deliver personalized book suggestions. Built a clean, user-friendly interface with genre browsing and dynamic recommendations.
- Implemented secure user login/signup and organized books into clear genre categories for easy browsing. Used user interaction data to improve suggestions, making book discovery more accurate and personalized.

TECHNICAL SKILLS

Languages: Python, SQL, R, JavaScript, C, C++, HTML, CSS
Database & Systems: MySQL, PostgreSQL, SQLite, MongoDB, AWS, Azure SQL
Data Visualization: Tableau, Power BI, Matplotlib, Seaborn, Plotly, Redshift
Tools & Frameworks: Git, Docker, CNN, NLP, Apache Hadoop, FastAPI, React.Js, TensorFlow, Pandas, PyTorch
Online Certificates: Cisco Data Science, BCG Data Analytics, AWS Cloud Computing, SQL Fundamentals