Saachi Dholakia

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EDUCATION

M.S. in Business Analytics (STEM)   January 2025
Boston University, Questrom School of Business, Boston, MA

B.S. in Electrical and Telecommunications Engineering with *Distinction*   May 2023
K.J. Somaiya College of Engineering, Mumbai, India

WORK EXPERIENCE

Business Analyst Developer Intern, *MassDot, Boston, MA*   June 2024 - August 2024
- Collaborated with stakeholders to gather, analyze, and document business requirements, leveraging the ServiceNow application to ensure alignment with business expectations and streamline processes.
- Analyzed and presented findings from NHTSA data on Tableau to determine the need for implementing four mirrors on trucks to reduce accidents by 23%.
- Designed comprehensive workflow diagrams and process documentation using Microsoft Visio to upgrade the MassDOT website plugins, which streamlined and improved user experience by 20%.

Junior Business Analyst, *Petzzco, Mumbai, India*   June 2022 - November 2022
- Streamlined collaboration between three outsourced teams (technical, creative, and media) and management to prioritize product requirements.
- Revamped social media algorithms using Google Analytics, increasing engagement by 7.25% in 2 months.
- Conducted beta testing on the application and delivered a comprehensive bug report to enhance the app's user experience, which decreased the occurrence of critical issues by 13%.

PROJECTS

Disease Surveillance Anomaly Detection Pipeline   September 2024 - December 2024
- Automated ETLT pipeline for processing 1M+ rows of CDC disease surveillance data using BigQuery and Docker for API pulling, reducing manual effort by 41%.
- Integrated OpenAI's GPT-4 and developed a chatbot using Streamlit for advanced querying and insights, enabling users to explore disease trends, detect anomalies, and generate contextual analyses.
- Conducted data cleaning, trend analysis, and anomaly detection with Python and Isolation Forest, achieving 98% accuracy and enabling real-time monitoring via Tableau and a GPT-4-powered chatbot.

Traffic Sign Recognition using Machine Learning and OpenCv   March 2024 - May 2024
- Explored various CNN models, including a custom model and MobileNetV2 for transfer learning; achieved 97% test accuracy with the custom model and fine-tuned the model using Weights & Biases (wandb.ai).
- Integrated Gradio.io to create an interactive interface, enabling real-time image classification and demonstrating the model's functionality.

LEADERSHIP EXPERIENCE

Founder, DataZen, Mumbai, India   May 2021 - May 2022
- Founded and chaired DataZen, led a council of six data science enthusiasts, and organized a 24-hour Kaggle hackathon with 600 student participants.
- Organized college events with the Dean, including a global seminar with deeplearning.ai (350+ attendees), and applied data science in a house price analysis project.

SKILLS

Programming Languages: C, Python, R, JavaScript, HTML, MATLAB, MS Excel
Project Management: SaaS, Agile, ServiceNow, Microsoft Visio, JIRA, Salesforce, API Pulling, Google Scheduler
Analytics Tools: MySQL, Tableau, Alteryx, Vertex AI, Google Cloud Platform, Big Query, Snowflake, Google Analytics, QlikView, Power BI, A/B Testing, MotherDuck, Prefect, Apache Superset, Streamlit, Docker