Mayur Dalvi

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EDUCATION

Master of Science in Data Science *August 2023 - May 2025*

University of Colorado Boulder, Colorado, USA *GPA: 3.82/4.0*

Relevant Courses: Machine Learning and AI, Data Mining, Information Visualization, Natural Language Processing, Neural Networks and Deep Learning, Software development, Datacenter Scale Computing

Bachelor of Science in Computer Science *July 2017 - June 2021*

University of Pune, India *GPA: 3.6/4.0*

Relevant Courses: Data Structures and Algorithms, Object Oriented Programming, Database Management Systems, Data Analysis, Computer Networks, Discrete Mathematics

TECHNICAL SKILLS

Programming Language: Python, R, SQL, C++, SAS, Linux

Developer Tools: GCP, Spark, Databricks, Tableau, Looker, Alteryx, Git, Airflow, CI/CD, A/B Testing, PySpark, JIRA

Technical Skills: PivotTables, Salesforce, Statistical Analysis, Data Manipulation, Artificial Intelligence, VBA

Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, BeautifulSoup, TensorFlow, PyTorch, Hadoop, ggplot2

Certificate: AWS Cloud Practitioner, Microsoft Certified: Power BI Data Analyst Associate, Google Data Analytics

WORK EXPERIENCE

City and County of Denver | Audit Data Analyst *December 2024 - Present*

- Developed risk analytics models in Python and SQL using Workday, Snowflake, and AWS to detect unauthorized purchases, cutting manual review time 65% and improving fraud detection across 217 locations.
- Automated purchase order compliance with Workday reports and geospatial validation, identifying 122,298 orders and ensuring 100% alignment with city-approved locations, strengthening procurement integrity and reducing risks.

ICR Inc | Data Scientist *August 2024 - December 2024*

- Automated the collection of 10 years of flight and weather data using Python, integrated web scraping and APIs, cut down data acquisition time by 60% and consolidated datasets into a unified framework for advanced analysis.
- Performed data wrangling, including data cleaning and merging, applied linear interpolation for missing time-series weather data, and utilized oversampling to address class imbalance in delayed flights, boosting model accuracy by 20%.
- Implemented machine learning model to predict flight delays based on weather conditions, achieving ROC score of 0.8 and providing actionable insights helped airlines optimize scheduling, potentially reducing delay-related costs by 15%.

NICE Systems | Data Engineer *July 2021 - July 2023*

- Engineered and optimized scalable ETL data pipeline to ingest and migrate 30 TB of audio call data, ensuring accurate mapping to agents and improving system reliability for over 10,000 users, reducing downtime by 25%.
- Developed and deployed automation of data mapping and batch processing using REST API and MySQL queries, streamlining call data extraction, boosting data accuracy by 20%, and eliminating manual intervention.
- Improved call ingestion logic, cutting execution time by 33% (from 12 hours to 8 hours) through concurrent data processing and efficient resource management, validated by comprehensive testing.

PROJECTS

Fraud Detection | Python, PowerBI, Excel **|** Link *June 2024*

- Increased fraud detection efficiency by 25% through developing a Power BI dashboard with DAX to visualize transaction volumes, identify fraud patterns, and monitor critical KPIs.
- Boosted model accuracy from 62% to 73% by tuning hyperparameter and implementing XGBoost, leveraging performance metrics Precision, Recall, and F1 Score to address imbalanced datasets.

Real Estate Insight Hub | AWS S3, Streamlit, Python **|** Link *January 2024*

- Optimized a full-stack supply chain platform with Streamlit, integrating advanced web scraping, K-means clustering, and XGBoost for predictive modeling, achieving seamless deployment on AWS EC2.
- Engineered a property recommender system leveraging vectorization and cosine similarity, enabling users to explore listings for informed business investments. Enhanced user experience with data visualization for actionable insights.