TEJAS MISTRY

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EDUCATION

Syracuse University, School of Information Studies, Syracuse, NY **May 2025**
Master of Science, Applied Data Science
Relevant Coursework: Introduction to Data Science, Data Admin & database Management, Scripting for Data Analysis, Applied Machine Learning, Quant Reasoning Data Science, Business Analytics, Big Data Analytics, Cloud Management.

University Of Mumbai, Lokmanya Tilak College of Engineering, Mumbai, India **June 2022**
Bachelor of Engineering, Computer Engineering
Relevant Coursework: Database Management System, Artificial Intelligence and Soft Computing, Machine Learning.

TECHNICAL SKILLS

Languages: Python, SQL, R, JavaScript
Quantitative Modeling: Scikit-learn, TensorFlow, XGBoost, ARIMA, LSTM
Big Data & Platforms: PySpark, Apache Spark, Databricks Delta Lake, Hadoop
Cloud & Tools: Microsoft Azure, AWS, Google Cloud, Snowflake, GitHub, JupyterLab, Docker
Visualization & Reporting: Power BI, Tableau, Google Analytics, Looker Studio
Other: GitHub Codespaces, Google Colab, Microsoft Excel

WORK EXPERIENCE

Data Scientist Intern, *Bandhouse Music group, Nashville, TN* **May 2024 - Aug 2024**
- Built and automated data pipelines in Python to collect and clean high-volume engagement data from Spotify, YouTube, and Instagram, improving data reliability and reducing manual effort by 20%.
- Performed EDA and statistical analysis using hypothesis testing and confidence intervals to uncover audience behavior trends, contributing to a 15% boost in user engagement.
- Designed interactive Tableau dashboards to visualize campaign performance, genre trends, and fan segmentation, enabling real-time strategic insights.
- Presented actionable insights and trend analyses to cross-functional teams, contributing to a 10% growth in streaming performance through data-backed recommendations.

Data Analyst Intern, *Aromagasms Cafe*, *Mumbai, India* **Feb 2023 - May 2023**
- Automated order and inventory management processes, increasing operational efficiency by 30% and standardizing data collection methods.
- Conducted statistical modeling and data analysis to identify key drivers of customer satisfaction, leading to a 25% improvement in service quality.
- Utilized SQL and Python scripts for data cleaning and automation, ensuring consistent and accurate data reporting.
- Delivered weekly marketing insights that facilitated data-driven decisions and contributed to enhanced campaign performance

PROJECTS

Airfare Prediction and Optimization with PySpark **Sep 2024 - Dec 2024**
Syracuse University
- Collaborated in a team of 3 to analyze airfare pricing dynamics using big data analytics, focusing on seasonal demand, market trends, and operational costs to inform pricing strategies.
- Led PySpark-based analytics model development to boost data-driven strategic pricing and revenue management.
- Built an end-to-end ML pipeline including data ingestion, feature engineering, model training (Gradient Boosting, Random Forest), and performance evaluation (R^2, RMSE).
- Delivered a validated model through a complete evaluation pipeline with an R-squared of 0.99 and RMSE of 12.60, driving dynamic, data-driven pricing strategies while significantly enhancing airfare prediction accuracy and revenue growth.

Inventory Demand Forecasting **Jan 2024 - Mar 2024**
Syracuse University
- Worked in a team of 4 to build ARIMA and LSTM models for forecasting grocery sales using historical and weather data, improving inventory planning and reducing stock issues.
- Processed and cleaned up over 100,000 records in Python to ensure accurate and reliable forecasting results.
- Performed Exploratory Data Analysis (EDA) to uncover patterns between weather changes and consumer buying behavior, helping optimize stock management.
- Delivered insights that minimized overstock and shortages, boosting inventory efficiency.