Tejas Mistry

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Education

Syracuse University, School of Information Studies **May 2025**
Master of Science in Applied Data Science

University of Mumbai, Lokmanya Tilak College of Engineering **June 2022**
Bachelor of Engineering in Computer Engineering

Experience

Research Analyst – Data & Behavioral Insights, *Syracuse University, Syracuse, NY* **July 2025 – Present**

- Conducted research on user behavior in socio-technical systems, supporting academic studies through structured data analysis and insight generation using Python and SQL.
- Developed automated data pipelines and reproducible Jupyter workflows, which accelerated research processing time by 40% and improved data accessibility for faculty teams.
- Performed exploratory data analysis (EDA) on survey and digital trace data to uncover behavioral trends, informing key research themes and publication outlines.
- Maintained collaborative research workflows using Git and version control, enhancing project transparency and cross-functional coordination.

Data Scientist Intern, *Bandhouse Music Group, Nashville, TN* **May 2024 – August 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* **February 2023 – May 2023**

- Automated order and inventory management processes, increasing operational efficiency by 30% and standardizing data collection methods.
- Identified customer satisfaction drivers via statistical modeling, leading to a 25% boost in service quality and improved retention metrics.
- 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.

Technical Skills

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

Capstone Projects

Airfare Prediction and Optimization, *Syracuse University* **September 2024 – December 2024**

- Collaborated in a team of 3 to analyze airfare pricing patterns using big data from flight routes and seasons (S/T). Built an end-to-end ML pipeline in PySpark with feature engineering and models (Gradient Boosting, Random Forest) to predict optimal pricing. Achieved $R^2 = 0.99$ and RMSE = 12.6, enabling revenue-focused dynamic pricing strategies (R).
- **Technologies used:** PySpark, Python, Jupyter, MLlib, Pandas, Gradient Boosting, Random Forest

Inventory Demand Forecasting, *Syracuse University* **January 2024 – March 2024**

- Partnered in a team of 4 to improve grocery inventory planning by modeling sales forecasts from historical + weather data. Built time-series models (ARIMA, LSTM, Prophet), cleaned 100K+ records, and conducted EDA to uncover weather-driven buying patterns. Results reduced stock issues and improved forecasting accuracy.
- **Technologies used:** Python, Pandas, NumPy, ARIMA, LSTM, Prophet, Matplotlib, Seaborn