JASH NIMESH DHARIA JALIWALA

(315)-590-2928 • jdhariaj@syr.edu • www.linkedin.com/in/jash-dharia

EDUCATION

Master of Science in Applied Data Science, Syracuse University, Syracuse, NY May 2025
Modules: Applied Machine Learning, Big Data Analytics, Financial Analysis, Data Warehouse, Business Analysis

Bachelor of Engineering in Computer Engineering, University of Mumbai**,** Mumbai, India May 2023

TECHNICAL SKILLS

Programming Languages: Python**,** SQL (Advanced), R, Java, Scala, SAS, C, C++, HTML, CSS, JavaScript
Database: MS SQL Server, Big Query, Snowflake, PostgreSQL, Oracle Database, MongoDB
Statistics: Probability, Statistical inference (Hypothesis testing, P-Values, Confidence Intervals), Regression, ANOVA
Tools: GCP, AWS, R Studio, Alteryx, Docker, Figma, Git, Tableau, Power BI, MS Excel, Trello, Twilio, dbt, Lucid, Vertex AI

EXPERIENCE

Data Scientist Intern, Upstate Medical University, Syracuse August 2024 – December 2024

- Developed 3 dashboards with SQL and Tableau to visualize key metrics, supporting insights on cash flow and patient trends
- Analyzed patient no-show rates with ETS, achieving 0.10 MAE, helping enhance clinic scheduling and decision-making
- Leveraged PageRank algorithm on clinical and operational data to rank 5 clinics by no-show rates, patient volume, and revenue, optimizing clinic performance and reducing delays across 21 healthcare personnel, leading to a $100k revenue boost
- Harnessed project management tools, enhancing collaboration with associate directors and improving project outcomes

Bioinformatics Research Assistant, Syracuse University, Syracuse August 2024 – December 2024

- Implemented LSTM on 50 molecular datasets, reaching an 85% R^2 score in aggregation prediction, optimizing drug delivery
- Engineered SVM to predict whether a molecule will cluster, attaining 90% accuracy, enabling targeted selection for research
- Applied Plotly to visualize clustering, revealing that molecular interactions depend on residue position over 200 nanoseconds

Graduate Data Science Intern, J. Galt Finance Suite, Indianapolis May 2024 – August 2024

- Incorporated an Auto dialer through Node.js and a REST API connection with Twilio, applying XGBoost for statistical modeling of call audio and duration estimation, driving 200 additional successful conversions per month
- Formulated an ETL pipeline with Python to enrich Zoho CRM records in Big Query leveraging data from Octoparse, adding 10000 data points, and enhancing data quality, which facilitated better lead profiling
- Directed risk management by forecasting 3-month sales trends using ARIMA, enabling strategies to reduce revenue loss
- Automated lead generation using the RAG, Botpress, and Google Cloud Functions boosting customer outreach

PROJECTS

Counteracting Misinformation by Gen-AI using Neural Networks January 2024 - May 2024

- Executed OpenCV for face detection and preprocessing methods like center cropping, resizing, and normalization on 10000 real and 6900 fake images, improving model accuracy by 1000 more correctly classified images
- Built a CNN with Alex Net, securing 84.6% accuracy, and deployed via Flask and Vercel for real-time content moderation

Multi-Domain Enterprise Data Warehouse Using Snowflake and dbt January 2024 - May 2024

- Initiated data pipelines with SQL**,** Snowflake**,** and dbt to integrate data from 4 business products, improving data accessibility
- Designed 4 PowerBI dashboards to monitor account usage KPIs, improving client engagement and decision-making

Anomaly Detection Using Autoencoders August 2022 - May 2023

- Defined LSTM Autoencoders with PyTorch to detect ECG anomalies, gaining 98% accuracy on the ECG5000 dataset
- Deployed a Flask-based web interface for ECG data input and anomaly visualization, improving healthcare usability

LEADERSHIP

Teaching Assistant, Syracuse University, Syracuse August 2024 - December 2024

- Led study sessions and mentored 120+ students in a 20-week ML course, helping them master machine-learning concepts

Artificial Intelligence Research Team Lead, NEXIS Student Technology Lab, Syracuse February 2024 - December 2024

- Orchestrated 3 teams to analyze 50,000 tweets using BERT, achieving a 91% F1-score and uncovering voter sentiment
- Spearheaded COVID-19 forecasting with 93% accuracy using Polynomial Regression, helping officials anticipate outbreaks