

# JASH NIMESH DHARIA JALIWALA

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## TECHNICAL SKILLS

**Programming Languages:** Python (TensorFlow, PySpark, PyTorch, Hugging Face), SQL (Snowflake, MS SQL), R (Shiny), SAS  
**Statistics:** Regression (Gradient Boosting, Polynomial), ANOVA, Time Series Analysis, Dimensionality Reduction, Causal Inference  
**Software:** GCP (BigQuery, Vertex AI, Cloud Functions), AWS (S3, Redshift), Git, Tableau, Power BI, MS Excel, Docker, Linux

## WORK EXPERIENCE

**Data Scientist**, Syracuse University, Syracuse, NY Aug 2024 – May 2025

- Researched correlations and position effects in 2000 molecular sequences with Plotly, revealing insights for clustering suitability
- Modeled LSTM to predict molecular sequences forming tetramers, achieving 85%  $R^2$  solving stable drug development
- Selected an SVM model for molecular sequence clustering, replacing manual processes, and saving \$2000 monthly
- Developed CI/CD pipeline in GitLab to retrain and deploy models, accelerating preparation for scientific publication

**Data Analyst**, Upstate Medical University, Syracuse, NY Aug 2024 – Dec 2024

- Consolidated clinical and operational data into 3 Tableau dashboards, visualizing key metrics for clinic merger decisions
- Conducted no-show rate forecasting with ETS (0.10 MAE) determined that shifting patients to public clinics increases no-show
- Analyzed 5 clinic rankings using PageRank on no-show rates, and income, revealing merger could cost additional \$50K annually
- Harnessed project tracking and presentation tools like JIRA and PowerPoint, enhancing collaboration with medical directors

**Data Scientist**, J. Galt Finance Suite, Indianapolis, IN May 2024 – Aug 2024

- Devised an Autodialer in Node.js and Twilio API with XGBoost call-outcome prediction, boosting conversions by 200 per month
- Engineered a Python pipeline to integrate Octoparse data into Redshift, enhancing cold call efficiency through enriched profiles
- Trained ARIMA using 3 years of sales data, forecasting a dip, enabling the finance team to strategize against market competition
- Constructed sales performance dashboard, enabling 10+ executives to track conversions and profits, optimizing decision-making

## PROJECTS

**Counteracting Misinformation by Generative-AI using Neural Networks** Jan 2024 – May 2024

- Built deepfake detection application using CNN with Alex Net, achieving 84.6% accuracy in identifying GAN-generated content
- Improved deepfake identification accuracy by processing 16,900 images and designing a face detection pipeline with OpenCV
- Authored model deployment and monitoring with Flask, MLflow, and Vercel, enabling screening for content moderation

**Multi-Domain Enterprise Data Warehouse Using Snowflake and dbt** Jan 2024 – May 2024

- Executed data architecture plan in Snowflake using SQL to handle 50,000 records with database modeling for analytics scalability
- Formulated dbt data transformations, optimizing ELT processes, automating workflows, and enhancing data efficiency
- Presented 4 Looker dashboards, delivering customer segmentation and behavior insights that informed pricing strategies

**Predicting Energy Demand in South Carolina** Aug 2023 – Dec 2023

- Compiled and preprocessed data from 5,000 houses with R, improving model input quality and reducing training time by 20%
- Achieved 91% accuracy in predicting energy demand for 5,000 houses using Linear Regression and Random Forest model
- Developed a Shiny application to display real-time energy forecasts and visualizations, enhancing energy monitoring efficiency

## LEADERSHIP EXPERIENCE

**Artificial Intelligence Research Team Lead, NEXIS Student Technology Lab, Syracuse** Feb 2024 – Feb 2025

- Led a team to analyze election tweets using BERT transformers, achieving a 91% F1-score and aiding in voter sentiment analysis

**Teaching Assistant, Syracuse University, Syracuse** Aug 2024 – Dec 2024

- Tutored 120+ students, resolving doubts about Machine Learning to improve exam scores by 10% on average

## EDUCATION

**Syracuse University**, School of Information Studies, Syracuse, NY May 2025

**M.S. Applied Data Science**

*Relevant Coursework:* Applied Machine Learning, Big Data Analytics, Financial Analysis, Data Warehouse, Lean Six Sigma

**University of Mumbai**, Thadomal Shahani Engineering College, Mumbai, India May 2023

**B.E. Computer Engineering**