

JASH NIMESH DHARIA JALIWALA

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EDUCATION

Master of Science in Applied Data Science, Syracuse University, Syracuse, NY August 2023 – May 2025

Leadership: Teaching Assistant for Machine Learning for 120 students

Modules: Applied Machine Learning, Big Data Analytics, Financial Analysis, Data Warehouse, Applied Mathematics

Bachelor of Engineering in Computer Engineering, University of Mumbai, Mumbai, India

August 2019 – May 2023

Leadership: Community Engagement Leader for Lions Club International

TECHNICAL SKILLS

Programming Languages: SQL (Advanced), Python, R, Java, Scala, SAS, C, C++, HTML, CSS, JavaScript

Database: MS SQL Server, Big Query, Snowflake, PostgreSQL, Oracle Database, MongoDB

Libraries: TensorFlow, PyTorch, AutoML, AutoTS, Keras, Pandas, NumPy, Matplotlib, Plotly, NLTK, scikit-learn, PySpark

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

Frameworks: Django, Flask, Node.js, Laravel, Angular, Vue.js, Next.js, .NET

EXPERIENCE

Graduate Data Scientist, 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 90% accuracy, 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 Data Scientist, Syracuse University, Syracuse

August 2024 – December 2024

- Implemented **LSTM** on 50 molecular datasets, reaching 85% accuracy 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
- Employed PyMol and VMD to visualize and analyze data from MD runs, improving understanding of dynamics

Artificial Intelligence Research Team Lead, NEXIS Student Technology Lab, Syracuse

February 2024 – December 2024

- Led 3 teams processing 50,000 election tweets adopting BERT realizing 91% accuracy and revealing voter sentiment
- Forecasted COVID-19 cases with 93% accuracy using Polynomial Regression, enabling officials to anticipate outbreaks
- Furnished **data cleaning**, feature selection, **data visualizations**, and Gradient Boosting to predict startup acquisition likelihood for 923 companies, earning an F1 score of 0.987, enabling insights into the key factors for startup investment
- Streamlined deployment workflows using **Git** for a **CI/CD pipeline**, reducing deployment errors by 50 instances per month

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 by 20%

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

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