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, Database Management

Bachelor of Engineering in Computer Engineering, University of Mumbai**,** Mumbai, India — August 2019 – May 2023

TECHNICAL SKILLS

Programming Languages: SQL (Advanced), Python, R, Java, Stata, 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, MS Access
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 public 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 inefficiencies across 21 healthcare personnel
- Harnessed **project management** tools, enhancing collaboration with associate directors and improving project outcomes by 20%

Bioinformatics Data Scientist, Syracuse University, Syracuse — August 2024 – December 2024

- Implemented **LSTM** on 50 molecular datasets, reaching 85% accuracy in aggregation prediction, optimizing medical drug delivery
- Engineered **SVM** to predict whether a molecule will cluster, achieving 90% accuracy, enabling targeted selection for further study
- 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 to process 50,000 election tweets adopting BERT transformers achieving 91% accuracy, revealing voter sentiment
- Forecasted COVID-19 cases with 93% accuracy using Polynomial Regression, enabling health officials to anticipate outbreaks
- Furnished **data cleaning**, feature selection, **data visualizations**, and Gradient Boosting to predict startup acquisition likelihood for 923 companies, achieving 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**, resulting in a reduction in errors by 15%

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, increasing sales conversion rates by 15%
- Formulated an **ETL** pipeline with **Python** to enrich Zoho CRM records in **Big Query** leveraging data from Octoparse, adding 10000 data points, and upgrading **data quality** by 25%
- Directed risk management by **forecasting** 3-month sales trends using ARIMA, enabling mitigation strategies to reduce revenue loss
- Automated lead generation using the RAG technique, Botpress, and Google Cloud Function 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 10%
- Built a **CNN** with Alex Net, achieving 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, achieving 98% accuracy on the ECG5000 dataset
- Deployed a Flask-based web interface for ECG data input and anomaly visualization, improving healthcare usability