Rushil Jagat Sheth

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Education

University of San Francisco San Francisco, CA	**June 2020**

Master of Science in Data Science

University of California – Berkeley Berkeley, CA	**May 2017**

Bachelor of Arts in Applied Mathematics
Bachelor of Arts in Statistics

Key Achievements

- Patent pending for an AI-powered data analysis system that extracts real-time, population-level insights from large volumes of customer data, enabling automatic discovery of unknown issues and trends
- Engineered a hybrid LSTM-based deep learning model for predicting stock price movements, incorporating news sentiment analysis, market indicators, and historical data to forecast 2-day stock alpha
- Voted Most Collaborative Partner to the Sales Organization at Pinterest, demonstrating strong cross-functional teamwork and business impact 📌

Work Experience

Machine Learning Engineer Lead	**February 2022 – Present**
EchoAI	San Francisco, CA

- Developed and implemented generative algorithms via LLMs from 0→1; ensured autonomous, precise, streamlined insights generation through cutting edge research, RLHF, and vector databases
- Directed projects autonomously, meticulously scoping requirements and parallelizing work to reduce coordination overhead. Served as the primary LLM/ML expert advisor to the CTO and broader company
- Hosted and fine-tuned open-source Language Models to reduce costs and increase flexibility, utilizing both human and synthetic datasets aligned with customer intent
- Contributed to the creation of an external service for large-scale machine learning models, in order to decouple computationally heavy tasks to enhance web app performance
- Created a scalable, fault-tolerant data pipeline using RabbitMQ, AWS Lambda, and DynamoDB, implementing asynchronous data fetching and CDC for consistent NoSQL and relational database integration, enabling real-time streaming
- Collaborated with teams across departments leveraging dbt and Hex for advanced analytics and automated the processing of customer data requests, boosting satisfaction as the sole Data personnel at the company

Data Scientist	**July 2020 – February 2022**
eHealth	San Francisco, CA

- Identified customers likely to churn through a Random Forest classifier and MLflow for model selection. Deployed the model as a containerized application via Docker and Kubernetes to ensure efficient, consistent, and scalable delivery.
- Utilized computer vision with LDMs to enhance creativity for Direct Mail through an internal web app
- Created an end-to-end model, pipeline, and monitoring to predict the LTV associated with sending a mailer to an individual via Spark, XGBoost and H2O which led to over 80% LTV with a 50% reduction in cost

Data Science Intern @ New York Mets	**October 2019 – June 2020**

Business Analyst @ Pinterest	**September 2018 – July 2019**

Proficient Technologies: Python, PyTorch, AWS, LLMs, Computer Vision, Kubernetes, Docker, Distributed Computing, Ray, Relational DB, NoSQL DB, Graph DB, MLOps, dbt, FastAPI, Next.js