

Daivya Shah

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EDUCATION

New York University, Stern School of Business and College of Arts and Science <i>B.A. in Computer Science and Data Science, Minor in Business</i>	Expected May 2026
	New York, NY

Relevant Coursework: Fundamentals of Machine Learning, Data Management and Analysis, Principles of Data Science, Causal Inference, Regression and Forecasting Models, Probability and Statistics, Linear Algebra, Data Structures, Calculus III

EXPERIENCE

Newmark <i>Software Engineer Intern</i>	Jun 2025 – Aug 2025 New York, NY
<ul style="list-style-type: none">Developed a responsive Commercial Real Estate (CRE) stacking plan using React and TypeScript to visualize floor-by-floor tenant and vacancy data through interactive layouts, filters, and color-coded lease expirations for faster leasing decisions.Built an interactive time-based activity feed using React Query to merge notes, tours, proposals, and deal updates into one chronological view, improving collaboration and reducing information retrieval time.Created a Kanban-style deal pipeline with @dnd-kit for drag-and-drop deal tracking, supporting inline editing, search, and customizable columns to help brokers manage leads and track deal progress efficiently.	
Harvest <i>Founding Software Engineer</i>	Feb 2025 – Mar 2025 New York, NY
<ul style="list-style-type: none">Developed an AI-powered manufacturer discovery platform using Next.js, FastAPI, Firebase, and Pinecone for vector search.Scraped and parsed 500+ manufacturer websites and catalogs using Selenium and Ruby scripts, normalizing 100K+ records in Firestore and embedding them with GPT-4 in Pinecone to power hybrid RAG manufacturer retrieval.Built a learning-to-rank recommendation engine using scikit-learn and XGBoost Ranker on feedback (clicks, shortlists), computing cosine similarity and feature scores (MOQ, region) to personalize manufacturer results and improve AUC + NDCG@5 relevance scores.	
Everise <i>Data Engineer Intern</i>	Jul 2024 – Dec 2024 New York, NY
<ul style="list-style-type: none">Automated ETL pipelines using Python, SQL, and Apache Airflow to integrate 500K+ data points from multiple sources into a centralized warehouse (MISDW) and built interactive Power BI dashboards with DAX to track B2P%, QA, and SLA performance.Conducted root cause analysis on customer service KPIs using SQL queries, Python transformations, and Power BI (segmentation, drill-downs, and DAX measures) across 100K+ user interactions to identify inefficiencies and improve customer satisfaction scores.Built a Go-based forecasting API to deploy ARIMA and LightGBM models to predict client-level Bill-to-Pay (B2P%) from time-series billing data with 93% accuracy, automated via Airflow DAGs and visualized in Power BI to improve revenue forecasting.	
eMeasurements - Industrial Autonomous Solutions <i>Data Analyst / Machine Learning Intern</i>	Jun 2024 – Jul 2024 Chicago, IL
<ul style="list-style-type: none">Collaborated on a Flask predictive maintenance system for industrial vehicles using SQLAlchemy, MySQL, and ensemble models (Random Forest, XGBoost) on sensor data, achieving 91% accuracy in predicting maintenance needs and reducing downtime.Developed a Tableau dashboard with calculated fields, parameters, and real-time alerts to support predictive maintenance planning.	

EXTRACURRICULAR ACTIVITIES & PROJECTS

NYU Machine Learning Club <i>Vice President</i>	Jun 2024 – Present New York, NY
<ul style="list-style-type: none">Led workshops on regression, feature engineering, and model evaluation, training 60+ students for DS/ML interviews.Organized industry talks with leaders from Meta, Datadog, and other top tech firms, expanding membership to 1,100+ students.	
NYU Stern Business Analytics Club <i>ML Team Analyst</i>	Sep 2024 – May 2025 New York, NY
<ul style="list-style-type: none">Studied deep learning architectures and models such as RNNs for N-way K-shot image classification and transformers, and how to build them using common frameworks like PyTorch; applied these skills in the "Optiver – Trading at the Close" competition.Engineered a stock closing reference price tracker for 400+ Nasdaq stocks using LSTM and ARIMA models in Python to predict auction imbalances and price directions from order book and closing auction data, achieving 27% lower MAE than baseline predictions.	
Fitzy Software / iOS Developer (Y Combinator 1st Round Interviewee)	Jul 2025 – Aug 2025
<ul style="list-style-type: none">Developed an AI fashion web app that digitizes wardrobes, generates clothing renders using Gemini 2.5 Flash Image, and recommends outfits via pgvector similarity search, collaborative filtering, and trend analysis with Supabase Edge Functions on a PostgreSQL backendBuilt a native iOS app in Swift (Xcode) integrated with Supabase for real-time sync and cross-platform wardrobe management	
Trustworthy AI Lab x GES UCLA Generative AI Hackathon Machine Learning Engineer (1st Place / 46 Teams)	Jun 2024
<ul style="list-style-type: none">Developed a Data Clean Room using Azure Confidential VMs, TPM2-tools, and Key Vault to enable secure data sharing between advertisers and publishers for predictive analytics; awarded an internship under Professor Guang Chen at the Trustworthy AI Lab, UCLAImproved CTR prediction accuracy by 20% using Random Forest models trained on GAN-generated synthetic data (99.87% fidelity)	

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript/TypeScript, Ruby, Golang, Java, C++, HTML/CSS, Swift

Libraries: Pandas, NumPy, Scikit-learn, PyTorch, TensorFlow, Statsmodels, LangChain, PySpark, SQLAlchemy

Frameworks & Tools: React, Next.js, Angular, Node.js, Flask, FastAPI, Redis, Apache Airflow, Apache Spark/Kafka, Databricks, Docker, AWS (EC2, S3), Azure Cloud, Pinecone, MySQL, PostgreSQL, MongoDB (NoSQL), Firebase, Power BI, Tableau, Git, JIRA, Agile