

Navya Srivastava

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EDUCATION

University of Washington

Master of Science in Data Science

Seattle, WA

Sept 2025 – March 2027

MS Ramaiah Institute of Technology

Bachelor of Technology in Electronics and Communication Engineering

Bengaluru, India

July 2017 – 2021

WORK EXPERIENCE

Oracle Health

Bengaluru, India

Senior Member of Technical Staff

May 2025 – Aug 2025

- Analyzed **15M+ healthcare records** using multivariate statistical methods and Oracle Cloud ML to identify treatment efficacy patterns across **20+** cohorts; built and optimized classification models, boosting accuracy by **22%** and reducing false positives by **17%** through hyperparameter tuning and feature selection.
- Designed and contributed to an AI-first EHR platform leveraging a **semantic data model, clinical knowledge graph, Generative AI, and embedded AI agents** to automate clinician workflows and improve patient care.

Goldman Sachs

Bengaluru, India

Quantitative Strategist, Liquidity Management Strats

May 2024 – April 2025

- Constructed a reinvesting model using linear optimization by forecasting cash inflow/outflow from source and use unwinding, boosting allocation efficiency by **25%** and **minimizing idle cash by 18%** across banking entities.
- Deployed a real-time Tableau dashboard with Python and Procmon to track actual vs. projected liquidity, trimming manual reconciliation time by **70%** and monitoring forecasts across **10+ entities**.

Senior Software Developer, Asset and Wealth Management

July 2023 – April 2024

- During the **revamp** of a legacy service, architected a **Kafka-based data streaming provision**, elevating client experience and reducing runtime by **30%**.
- Migrated from **Sybase to MongoDB** with zero server downtime, **cutting failures by 90%**.
- Engineered an **in-memory caching system** for frequently executed SQL queries, decreasing database load by **50%** and accelerating service response times.
- Crafted Java-based microservices and authored JUnit and integration tests. Integrated internal pipelines using **Java and Groovy scripts** to enrich API payload and transmit it to vendors.

Software Developer, Asset and Wealth Management

Aug 2021 – June 2023

- Managed the payment pipeline processing over **45K transactions daily**, ensuring efficient and reliable output.
- Created **webhooks** accessible **over HTTP** and facilitated by an **API Gateway** to process bill payments. Used **Prometheus and Grafana** for Monitoring and Analytics. Client engagement improved to **78%**.
- Built back-end services for **Reconciliation system and Batching**, strengthening system performance and reliability; actively participated in architectural reviews.

TECHNICAL SKILLS

Languages & Programming: Python, Java, C++, SQL, Bash

Frameworks & Libraries: React, Spring Boot, REST API, Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib, Seaborn, Kafka

ML & Data Engineering: Deep Learning, NLP (Sentiment Analysis, RAG), Feature Engineering, Model Deployment (Flask, Streamlit), Embedded AI Models & LLMs, Spark, MongoDB, Sybase, Data Pipelines, Hadoop

Cloud & DevOps: AWS, Prometheus, Tableau, Git, Docker & Kubernetes, CI/CD Pipelines

PROJECTS

AI-Powered PDF Chatbot

- Developed a PDF-based QA chatbot using Retrieval-Augmented Generation (RAG) architecture with FAISS, LangChain, and Google Gemini. Evaluated retrieval quality using top-k accuracy and reduced hallucination by 18% via prompt tuning and chunk size optimization. Deployed with Streamlit and secure API integration.

Call-Center Feedback Analysis

- Framed speaker diarization as an unsupervised clustering task using agglomerative hierarchical clustering on MFCC features. Achieved 90% diarization accuracy; ablation study showed dimensionality reduction improved cluster purity by 12%.

Stock Price Prediction with Sentiment using NLP

- Built LSTM model for stock price forecasting by fusing historical data with Reddit/news sentiment. Deployed via Flask web app with dynamic time-series preprocessing; model outperformed ARIMA baseline by 15% (RMSE), and ablation showed Reddit sentiment improved accuracy by 7%.