

Navya Srivastava

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EDUCATION

University of Washington

Seattle, WA

Master of Science in Data Science

Sept 2025 – March 2027

Relevant courses: Data Visualization, Statistics and Probability, Statistical Machine Learning for Data Science, Human-Centered Data Science, Deep Learning, Applied Statistics and Experimental Design, Artificial Intelligence

Ramaiah Institute of Technology

Bengaluru, India

Bachelor of Technology in Electronics and Communication Engineering

July 2017 – 2021

Relevant courses: Data Structures & Algorithms, Linear Algebra, Fundamentals of Computing, Internet of Things

WORK EXPERIENCE

Oracle

Bengaluru, India

Senior Member of Technical Staff, Oracle Health and AI

May 2025 – Aug 2025

- Built high-recall diagnostic classifiers using **XGBoost** with **MLflow** tracking, reduced false positives by **17%** through optimized feature selection.
- Developed a semantic clinical knowledge graph and **BERT-based Generative-AI** text-to-code pipeline in **TensorFlow**, automating **60%** of documentation tasks and accelerating clinical note structuring.

Goldman Sachs

Bengaluru, India

Quantitative Strategist, Liquidity Management Strats

March 2024 – April 2025

- Modelled Interest Rate and priced fixed income Exotic Derivative using **Monte Carlo** method.
- Applied **time series forecasting** to anticipate Treasury database spikes during high-load periods, reducing capacity outages by **20%**.
- Developed a reinvesting model using **linear optimization**, improving reinvestment allocation efficiency by **25%**.
- Built an **ETL pipeline** with **Spark** and a centralized **Data Lake**, orchestrated via Procmon batch jobs, and a **React** dashboard for trend/anomaly analysis, delivering insights that reduced idle cash by **15%**.

Software Developer, Asset and Wealth Management

Aug 2021 – Feb 2024

- Designed **GraphQL** schemas and remodeled backend APIs and processed **10K+ corporate filings** into MySQL.
- Modernized legacy services with **Kafka-based pipeline**, enabling real-time data and cutting processing time by **30%**.
- Crafted and containerized Java-based microservices with Spring Boot, orchestrated via **AWS ECS**, enabling auto-scaling to handle **5x traffic spikes** without downtime.
- Implemented a distributed **event logging framework** with SQS, AWS Lambda, and S3, cutting undetected pipeline errors by **85%**.
- Managed a **45K-transaction/day** payment pipeline with distributed systems and 99.99% uptime; added **Prometheus** + Grafana observability, boosting client engagement to **78%**.

Ramaiah Institute of Technology

Bengaluru, India

Research Intern

Jan 2021 – June 2021

- Implemented COVID-19 transmission on social contact networks using **Graph Neural Networks**; achieving interpretable infection risk predictions on **10K-node** datasets.

PROJECTS

No-Contact Routing of Customers in Partially Filled Systems

- Modeled a dynamic network with multiple nodes and stochastic (exponential) inter-arrival times, to capture real-world system
- Developed linear constraints and optimization function with time-windows formulation for the system which reduced runtime to 10% as compared to existing MTZ formulation

Graph-Based Movie Recommendation Engine

- Developed a graph-based recommendation system that generated movie suggestions by modeling user-movie interactions as a bipartite graph and applying random walk traversal with Jaccard and Cosine similarity scoring.

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, C/C++, Linux/Shell scripting, Go, JavaScript, Rest API, Flask, Streamlit

Big Data & Databases: SQL (MySQL, PostgreSQL), NoSQL (Cassandra, MongoDB), Apache Spark, Kafka, Hadoop

Tools: Git, CI/CD Pipelines, SpringBoot, Docker, Kubernetes, Prometheus, Terraform, Jenkins

Machine Learning & AI: TensorFlow, PyTorch, Scikit learn, Pandas, NumPy, Seaborn, Keras, Transformers

ACHIEVEMENTS

Hackathon: GS Firmwide Hackathon (top 3 of 75 teams), Smart India Hackathon (1st place)

Certifications: AWS Certified Cloud Practitioner, AWS Certified Machine Learning Specialist, Machine Learning with Big Data