ARYA MEHTA

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EDUCATION

San Jose State University   **San Jose, CA**
Master of Science in Applied Data Science   *Jan 2025 – Present (Expected Dec 2026)*
- GPA: **3.4**/4.0

TECHNICAL SKILLS

Languages: Python, Java, SQL, JavaScript, TypeScript
Backend: Spring Boot, FastAPI, REST APIs, Docker, CI/CD, Microservices
AI/ML: LLM Integration, RAG Pipelines, Vector DBs (Pinecone, FAISS)
Frontend: React, Next.js, Redux, HTML/CSS
Cloud & DB: AWS (EC2, S3, RDS), MySQL, PostgreSQL

PROFESSIONAL EXPERIENCE

Energy Meteo Control Solution Pvt. Ltd.   **Ahmedabad, India**
Backend Engineer   *Jan 2024 – Dec 2024*
- Designed and implemented scalable database solutions on **AWS** (**RDS**, **EC2**) utilizing advanced SQL partitioning and index optimization techniques, resulting in **40%** improved query performance and **25%** cost reduction
- Developed automated **CI/CD pipelines** integrating **Liquibase**, **GitLab CI**, and **Apache Airflow** for streamlined database deployments and version-controlled schema management
- Implemented robust database transaction logic leveraging **ACID principles** and **RBAC policies**, ensuring data integrity and security compliance

Dupat Infotronicx Pvt. Ltd.   **Ahmedabad, India**
Data Engineer Intern   *Aug 2022 – Aug 2023*
- Engineered data pipelines using **Python**, **SQL**, and **Apache Spark** to process **1M+** records daily, reducing processing time by **65%**
- Developed real-time analytics dashboard using **Power BI** and **REST APIs**, achieving **99.9%** data pipeline reliability

PROJECTS

Enterprise RAG System with LLM Integration   🐙 **View Project**
Python, LangChain, PyTorch, FastAPI, PySpark, Pinecone, MLflow
- Architected production-grade RAG system using **LangChain**, **PyTorch**, and **Hugging Face** transformers to process **1M+** documents, implementing custom retrieval strategies and semantic search achieving **92%** relevance accuracy
- Engineered distributed document processing pipeline with **PySpark** and **PyTorch** for embeddings generation and vector search, reducing processing time by **75%**
- Implemented production monitoring with **MLflow** and automated CI/CD using **GitHub Actions**, achieving **99.9%** system reliability

SJ Hope Navigator - Hackathon Winner   🐙 **View Project**
Java, Spring Boot, React, Next.js, MySQL, Docker
- Architected award-winning platform using **Spring Boot** microservices with **OpenAPI** documentation and **MySQL** sharding, handling **1000+** concurrent users at **¡100ms** latency
- Implemented secure **React/Next.js** frontend with **Redux Toolkit**, achieving **95%** test coverage and **60%** performance gain through SSR

Netflix Show Popularity Predictor   🐙 **View Project**
Python, Scikit-learn, FastAPI, TF-IDF, SMOTE
- Developed ML pipeline with feature engineering (**25+** features) and model training using **Random Forest**, achieving **85%** prediction accuracy
- Implemented **TF-IDF** vectorization and **SMOTE** for preprocessing, deployed using **FastAPI** with optimized performance
- Designed and implemented real-time monitoring dashboard using **Grafana**, achieving **99.9%** API availability and sub-100ms response times