NAMAN MEHTA

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TECHNICAL SKILLS

- **Programming Languages & Databases:** Python, SQL (Snowflake, SQL Server, PostgreSQL), Neo4j, MongoDB, C++
- **Frameworks & Libraries:** Spark, Kafka, Pandas, PyTorch, Scikit-learn, A/B Testing, Streamlit, Flask
- **Platform Tools**: Airflow, Git, Docker, Kubernetes, Rest APIs, Tableau
- **Cloud Tech Stack:** Amazon Web Services (Athena, EMR, Redshift, Glue, Kinesis, RDS, SageMaker, IAM, EC2, Lambda), Microsoft Azure, Google Cloud Platform (GCP), Databricks
- **Certifications:** AWS Certified Machine Learning – Specialty

WORK EXPERIENCE

Jones Lang Lasalle   *Chicago, IL*
Senior Business Intelligence Engineer   *Jan '24 - Present*

- Consolidated 5 years of Energy Storage Systems data into **Azure Data Lake** using **PySpark ETL** pipelines. Designed predictive maintenance strategies and **Tableau dashboards**, reducing system downtime by 35%.
- Engineered and launched 3 **data initiatives** using **SQL**, **Python**, and **Tableau**. Optimized facility management operations, reducing high-priority work orders by 40%, incident claims by 25%, and budget usage by 15%.
- Created and led 8-hour courses in Python and SQL for junior analysts and data scientists, and directors, enhancing their skills in data engineering and analytics, leading to a 20% increase in team productivity.

Jones Lang Lasalle Technologies   *Chicago, IL*
Data Engineer Intern   *Jun '23 – Dec '23*

- Designed and implemented a **real-time alert notification system** and weekly summary dashboard for 200 GB of IoT data from 400+ office and retail locations, integrating into Azure Data Lake, resulting in a 50% reduction in incident response time.
- Developed and optimized ETL pipelines using **Apache Kafka** and **Azure Databricks**, facilitating efficient data storage from bill process streams within a **medallion architecture**, improving data processing speed by 30%.

Pangea Tech   *Bangalore, India*
Data Analyst   *Nov '21 - May '22*

- Consolidated monthly financial planning reports for SaaS companies by developing **ETL** process using **AWS EMR**, and **AWS Redshift** to spotlight trends and **train predictive ML models** for customer churn and root cause analysis, resulting in annual savings of over $200K.
- **Migrated** 20 GB **data warehouse** including stored procedures, triggers, and ETLs from SQL Server to AWS Redshift, improving query performance by 40% and reducing infrastructure costs by 25%.

Equity Data Science   *Mumbai, India*
Quant Data Analyst   *Jun '20 - Oct '21*

- Delivered **customized solutions** to track investments, risk, and return through **ETL pipelines** and various Spotfire **dashboards** to analyze performance, resulting in a 90% POC to client conversion and 100% subscription from existing clients.
- Architected an **automated email reporting system** for clients to consolidate their portfolio and market data. Generating additional revenue from 70% of existing clients.
- Solved clients need to get insights from large financial documents by implementing an **NLP-based analytical system** which added $200K additional revenue.

RESEARCH & PROJECTS

Generative AI Researcher (Text Query Language)

- Engineered a GenAI product to **automate SQL query generation** from natural language by fine-tuning **Large Language Models (LLMs)** on **GCP** leveraging **Vertex AI Studio**, **Model Garden**, **Hugging Face**, and **QLoRA**. This reduced manual data querying time by 80%.

Forecasting NYC Yellow Taxi Prices and Demand

- Conducted detailed **exploratory data analysis (EDA)** on around 29 GB of NYC Taxi trip data via **Spark SQL** on **GCP**; uncovered key demand trends and price sensitivities, leading to strategic fare adjustments and revenue growth.
- Engineered highly accurate taxi demand forecasts by training **Random Forest** and **XGBoost** models on trip activity data using **Spark ML**; optimized fleet allocation, reducing idle time by 18%.

Building Algorithmic Trading Infrastructure

- Developed an end-to-end algorithmic trading bot using **Google Cloud Platform (GCP)**, leveraging **VMs**, **BigQuery**, **Cloud Functions**, and **Pub/Sub** to process real-time market data, execute trades, and manage risk, achieving a 15% improvement in trade execution speed.

EDUCATION

The University of Chicago   *Chicago, IL*
MS in Applied Data Science
Narsee Monjee Institute of Management Studies   *Mumbai, India*
B.Sc. in Applied Statistics & Analytics