Tejas Rajendra Raut

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EDUCATION

Northeastern University   **Boston, MA | May 2023**
Master of Science | Engineering Management - Database Management

Vellore Institute of Technology   **Vellore, India | Apr 2020**
Bachelor of Technology | Mechanical Engineering

PROFESSIONAL EXPERIENCE

CloudBig Technology, Software Engineer   **San Francisco, CA | Jun 2024 - Present**
- Designed and deployed AWS Lambda functions to process notification events from SNS and SQS, incorporating specialized logic for failure recovery, notification handling, and systematized message resubmission
- Developed a scalable OpenSearch ingestion pipeline using AWS CDK to process over 90 million records per month, optimizing bulk write operations and document update patterns for data consistency and performance
- Implemented advanced error handling strategies in Lambda functions, leveraging SQS visibility timeouts and dead-letter queues to ensure a 99.9% success rate in event-driven processing
- Engineered AWS CDK integration tests and CI/CD pipelines with staged rollouts and mechanized rollback for reliable deployments

Mystry Inc., Data Engineer   **Bellevue, WA | Oct 2023 - Jun 2024**
- Migrated on-prem data systems to Azure Cloud, optimizing storage and query design to improve performance by 35 % and reduce costs by 25 %
- Designed and automated Azure ETL pipelines to process 2 TB+ of data daily and enhanced CI/CD workflows, increasing deployment throughput by 40 % and minimizing downtime by 30 %
- Built data marts and clustering models in Python, enabling refined customer segmentation that boosted marketing engagement by 15 %

Highbar Technologies, BI Engineer   **Mumbai, India | May 2020 - Jun 2021**
- Enabled an 11% revenue uplift for enterprise clients by developing KPI-focused Tableau dashboards and optimizing SAP HANA queries to deliver real-time insights across finance and operations
- Strengthened credit and operational risk models by 20% by building Python and Excel-based variance and stress testing tools that improved the accuracy of investment planning
- Optimized financial workflows by rebuilding ETL pipelines in Azure Data Factory, automating reporting to reduce refresh time

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, Transact-SQL, Scala, Java, JavaScript, TypeScript, HTML/CSS
Python Libraries and APIs: NumPy, Pandas, TensorFlow, Scikit-learn, Matplotlib, Seaborn, PySpark
Databases and Big Data Technologies: PostgreSQL, MySQL, MongoDB, Azure Cosmos, Kafka, Airflow, Spark, Hive
Frameworks & Tools: Databricks, Snowflakes, AWS, Azure, Git, Node.js, Angular, Tableau, Power BI, Microsoft Excel, Minitab, MATLAB

ACADEMIC PROJECTS

Battleship Web Game *[React, TypeScript, Firebase, AWS S3, CloudFront]*   **Jan 2024 - Apr 2024**
- Built a real-time 1v1 Battleship game in React/TypeScript with Firebase rooms, turn sync, and 30-second auto-resume ; implemented full game logic, compass-based ship control, and an AI bot with hit-streak heuristics
- Created a CDN pipeline for 240-frame ship animations using AWS S3 + CloudFront with auto-sync hooks for Blender-rendered assets ; optimized GPU rendering and z-layering to improve in-game responsiveness

Stock Price Prediction *[Python, Keras, LSTM, Pandas, NumPy, Scikit-learn]*   **Sep 2023 - Dec 2023**
- Trained LSTM models in Keras on 8K+ Reliance data to forecast stock prices, tuning hyperparameters for reduced loss
- Preprocessed and normalized time-series data with Pandas/NumPy, and benchmarked LSTM results against Random Forest, SVR, and KNN models, achieving 65 % directional prediction accuracy

Formula-1 Data for Reporting *[Azure, PySpark, Spark SQL, Power BI]*   **Jan 2023 - May 2023**
- Engineered a PySpark ETL pipeline on Azure to ingest Formula 1 data from the Ergast API into Delta Lake, implementing partitioning, schema evolution, and incremental loads for efficient querying
- Orchestrated Azure Data Factory workflows with automated triggers and monitoring for near-real-time Power BI analytics