

# Tejas Rajendra Raut

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## EDUCATION

### Northeastern University

Master of Science | Engineering Management – Database Management

Boston, MA | May 2023

### Vellore Institute of Technology

Bachelor of Technology | Mechanical Engineering

Vellore, India | Apr 2020

## PROFESSIONAL EXPERIENCE

### Software Data Engineer, CloudBig Technology

Bellevue, WA | June 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 automated message resubmission
- Built 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
- Developed a comprehensive integration test suite using AWS CDK, achieving 95% code coverage to validate end-to-end data flow from SNS/SQS to OpenSearch, and engineered a CI/CD pipeline with staged deployments and automated rollback mechanisms for production reliability

### Software Data Engineer, Mystry Inc.

Bellevue, WA | Oct 2023 – June 2024

- Led the migration of on-premises data infrastructure to Azure Cloud, resulting in a 35% improvement in query performance and a 25% reduction in operational costs with a fully production-ready data warehouse
- Architected scalable ETL pipelines in Azure to process over 2TB of data monthly; streamlined CI/CD workflows to increase deployment throughput by 40% and minimize downtime by 30%
- Enhanced targeted marketing strategies by developing custom data marts and implementing clustering models in Python, driving a 15% uplift in user engagement

### BI Data Engineer, Highbar Technologies

Mumbai, India | May 2020 - Jun 2021

- Drove an 11% increase in quarterly revenue by designing KPI-focused Tableau dashboards and extracting actionable insights through SQL queries on SAP HANA
- Mitigated credit and operational risk by 20% by constructing financial models in Excel and Python, leveraging variance analysis and stress testing to inform strategic investment decisions
- Streamlined financial operations by 30% through process mapping in Visio, improving ETL performance using Azure Data Factory

## TECHNICAL PROJECTS

### Formula-1 Data for Reporting [Azure, PySpark, Spark SQL, Power BI]

Jan 2023 - Apr 2023

- Engineered an ETL pipeline to ingest Formula 1 data from the Ergast API, transforming it into Delta Lake format with partitioning and incremental load strategies for optimized query performance
- Created interactive real-time dashboards in Power BI to visualize metrics like dominant drivers and constructors, while orchestrating automated ingestion and monitoring workflows via Azure Data Factory

### Stock Price Prediction [Python, Keras, LSTM, Pandas, NumPy, Scikit-learn]

Jan 2022 - Apr 2022

- Built and trained an LSTM-based neural network model to predict stock closing prices using 8,000 data points from Reliance
- Preprocessed datasets with Pandas and NumPy, engineered features for improved model accuracy, and benchmarked LSTM performance against Random Forest, SVR, and K-NN, achieving 65% prediction accuracy

### NU Events Web-Application [JavaScript, Angular, Express.js, Node.js]

Sept 2021- Dec 2021

- Built a full-stack event registration platform to streamline the RSVP process, leading to a 50% increase in event participation through intuitive user flows and automated tracking
- Integrated real-time event location updates and email confirmations, enhancing student engagement and delivering a seamless user experience across platforms

## 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, Apache - Airflow, Spark, Hive

**Frameworks & Tools:** Databricks, Snowflakes, AWS, Azure, Git, GitHub, Node.js, Express.js, Angular

**ERP and Visualization:** SAP HANA, MS Dynamics, Tableau, Power BI, Microsoft Excel, Minitab, MATLAB