

Ritvi Shah

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EDUCATION

University of Texas at Dallas

Master of Science in Information Technology and Management

Aug 2023 – May 2025

GPA-3.5

LJ Institute of Engineering and Technology

Bachelor of Science in Information Communication Technology

Aug 2019 – May 2023

GPA-3.7

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, C++, MySQL

Data Visualization Tools: Tableau, PowerBI, Google Analytics, Excel (Pivot tables, VLOOKUP, Macros, VBA, NPV, IRR)

Data Science Libraries: TensorFlow, sci-kit-learn, pandas, NumPy, SciPy, Matplotlib, seaborn, PyTorch.

Cloud Services: S3, Glue, Redshift, Quicksight, Sagemaker, EC2, Data Pipeline, Snowflake, Lex, Lambda

PROFESSIONAL EXPERIENCE

Data Engineer, York IE ACPC Pvt Ltd

Jan 2023 – Jul 2023

- Architected and executed pipelines on ETL processes, via Python to integrate datasets, and reduced processing time by 20%.
- Streamlined cloud storage costs by 10% and improved retrieval efficiency from Blackbaud's datasets by implementing AWS Athena for analysis and AWS Glue for SQL query execution.
- Collaborated with global clients and system users to support reporting for system development, ensuring 5% compliance.
- Executed SQL queries and DynamoDB operations to enforce Personally identifiable information protocols on 10+ datasets, ensure integrity and eliminate confidential information from JSON datasets to enhance security.

Data Analyst, Brainy Beam Pvt Ltd

May 2022 – Aug 2022

- Established analysis of user behavior data from an e-commerce platform employing statistical and Markov analysis techniques.
- Conducted exploratory data analysis, goal setting, forecasting, and quantitative descriptive statistics on sales data to optimize KPIs performance resulting in a 14% reduction in backlogs.
- Optimized data warehousing to handle Bigdata using SQL and R to conduct product analysis resulting in 20% redundancy.

Data Science and Visualization Analyst, Saint Louis University

May 2021 – Aug 2021

- Spearheaded a statistical analysis using TensorFlow, and Scikit-Learn, and processed text using Python's NLTK predictions.
- Developed a Database Management System utilizing Microsoft VBA for efficient process data mapping and executed a Power BI dashboard, enhancing data insights and efficiency by 4%.
- Engineered Custom sentiment analysis models, yielding an accuracy rate by leveraging pre-trained NLP models.

RESEARCH PROJECTS

Analyzing streaming data with Kinesis

Mar 2024 – Apr 2024

- Streamlined Kinesis data streams to capture web access logs, enhancing visibility into user interactions with the website.
- Formulated Redshift clusters for high-performance warehousing, to create databases for optimized data loading in Amazon S3.
- Established AWS Glue crawlers through the Console, facilitating automated extraction of data and schema creation of databases.

Algorithmic Trading using Quantitative Strategy

Feb 2024 – Mar 2024

- Engineered data extraction from Yahoo Finance to monitor stock price fluctuations, applying unsupervised and clustering techniques to develop statistical models to conduct data cleaning and imputing missing values in the portfolio dataset of stocks.
- Collaborated with a team of 4 and liaised moving average and Bollinger band trading strategies, achieving a 17% profit increase by enhancing the current model and critically completing it in 24 hrs.

Road data analysis

Jan 2024 – Feb 2024

- Illustrated Power BI to develop interactive dashboards showcasing key insights of performance metrics, and implemented advanced Excel techniques for data cleaning, processing, and modeling.
- Achieved location accuracy, establishing relationships between various points, and creating 7+ multidimensional models.

Twitter Analysis using Apache

May 2023 – Sep 2023

- Orchestrated the data pipeline and deployment on an EC2 instance using Apache Airflow, ensuring automated processing.
- Formulated ETL process to clean and structure the real-time Twitter data, facilitating integration into an S3 bucket for storage.

LEADERSHIP EXPERIENCE

Program Manager, Phoenix Club

Jan 2021 – Dec 2022

- Transformed student leadership team, increasing membership by 20% over two years, and collaborating with industry leaders while training students in instructional, logistical, and technological tasks, resulting in increased performance outcomes.
- Collaborated with the analytics team to identify system issues, accelerating teamwork, and initiated and executed a targeted outreach campaign creating opportunities for student internships and mentorships boosting annual revenue by \$5K.