

PRANITHA POOSA

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EDUCATION

NORTHEASTERN UNIVERSITY

M.S. in Information Systems, GPA: 3.79/4.0

Boston, MA

Expected May 2024

- **Relevant Coursework:** Data Management and Database Design, Data Science Engineering Methods and Tools, Algorithmic Digital Marketing, Generative AI with LLMs in Data Engineering

VNR VIGNANA JYOTHI INSTITUTE OF TECHNOLOGY

B.Tech. in Electronics and Communication Engineering (E.C.E.), GPA: 3.7/4.0

India

2016 - 2020

- **Relevant Coursework:** Multivariate Calculus, Linear Differential Equations, Statistics, Probability, Relational DBMS

SKILLS

Programming Languages: SQL, Python

BI Tools: Tableau, Power BI, Qlik Sense, Advanced Excel - Macros, VBA, Pivot Tables, VLookup

Cloud Computing: AWS - S3, Athena, Redshift; GCP - BigQuery, Compute Engine

Tools & Methodologies: Snowflake, MySQL, Alteryx, Apache Airflow, DBT, Agile, JIRA

Specializations: Data Warehousing, Statistical Analysis, Data Modeling, ETL/ELT, Machine Learning

WORK EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS

Data Analyst

Nov 2020 - Jul 2022

- Analyzed and optimized data workflows, utilizing **Snowflake** to enhance **ELT** pipeline efficiency, reducing data processing times by **30%** across multiple projects.
- Extracted data from client systems, conducted data analysis using **Python** to identify KPIs and utilized **Google BigQuery** for efficient data storage.
- Crafted interactive dashboards and ad-hoc reports using **Tableau** and **Power BI**, enriching data visualization and facilitating further analysis by the users.
- Consistently achieved code coverage of up to **70%** ensuring thorough testing throughout the development.
- Worked on proof of concept (POC) to execute custom validation scripts for evaluating data quality before ingestion.
- Optimized **SQL queries** to improve performance by around **10%** through query restructuring to remove redundant calculations resulting in faster data retrieval times.

PROJECTS

NYPD Arrest Data (Historic) Insights | Tableau, BigQuery, Python ([Link](#))

- Examined New York City police enforcement activity by using **BigQuery** for data querying and **Python** for data cleaning, resulting in **Tableau** dashboards that revealed key trends and patterns, published on **Tableau Public**.

Formula 1 Race Data Analysis | SQL, PowerBI (DAX), Power Query ([Link](#))

- Transformed F1 race data using **Excel** and **Power Query** for initial **EDA** and data modeling.
- Created a **snowflake** schema, and developed dynamic **PowerBI** reports with **advanced DAX calculations**, effectively visualizing KPIs related to Formula One racing details.

Retail Data Transformation and Analytics Pipeline | DBT, Snowflake, SQL, Snowsight ([Link](#))

- Engineered a data transformation and analytics pipeline for the **TPC-H benchmark** dataset in **Snowflake**.
- Utilized **DBT** for staging and model transformations to generate fact tables, and visualized quarterly sales metrics using **Snowsight Dashboards**.

Legal Insights Engine | PySpark, Neo4j, Python, Streamlit, Apache Airflow ([Link](#))

- Orchestrated the Legal Insights Engine with **PySpark** for data preprocessing & **Neo4j** for knowledge graph curation.
- Leveraged **LLMs** with a graph-based knowledge base for semantic search and similarity recommendations, and managed the workflow with **Apache Airflow**, including a **Python**-based chatbot for interactive legal queries.
- Utilized **FastAPI** to develop **REST APIs** for seamless communication between the backend and frontend components.

CERTIFICATIONS

TDS-C01 Tableau Desktop Specialist ([Link](#))