GNANESWAR MARKAT

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PROFESSIONAL SUMMARY

Data Analyst with 3+ years of experience in data analysis, machine learning, and data visualization. Strong academic foundation with a Master's in Data Science and expertise in SQL, Python, and cloud platforms (Snowflake, Azure). Skilled in automating data workflows, optimizing ETL pipelines & creating interactive dashboards to drive business insights and operational efficiency. Proven ability to apply statistical modeling and predictive analytics to deliver actionable solutions that enhance decision-making and support business growth.

EDUCATION

University at Buffalo, SUNY **August 2023 – January 2025**

Master of Science in Engineering Science ***Data Science*** *–GPA (3.76/4.0)* *Buffalo, New York(USA)*

Coursework:, Python Programming and Database Fundamentals for Data Scientists, Statistical Learning and Data Mining, Introduction to Machine Learning, Data Models Query Language(SQL), Data Structures and Algorithms with Python.

TECHNICAL SKILLS

Programming & Scripting Languages: Python, SQL, R, SAS, MATLAB

Data Analysis & Visualization Techniques, Tools: Data Visualization, Data Manipulation, EDA, Statistical and Predictive Modeling, MS Excel(Pivot Tables), Power BI, Tableau, Looker, StreamLit

Data Management & ETL Tools: Snowflake, Hive, Kafka, Apache Airflow, MySQL, MongoDB, Azure

Machine Learning & AI: Data Mining, Machine Learning, Statistical Modeling, Predictive Modeling, GENAI, LangChain, LLMs

Cloud Technologies: Google Cloud Platform (GCP), BigQuery, AWS, Azure

EXPERIENCE

Cognizant Technology Solutions **August 2021 – July 2023**

Data Analyst *Bangalore, India*

- Optimized SQL scripts to enhance data processing efficiency by applying advanced techniques like indexing, query optimization, and Common Table Expressions, reducing processing time by 50% and significantly **improving reporting workflows**.
- Developed automated data extraction workflows by developing Python scripts integrated with SQL, utilizing libraries like SQLAlchemy and Pandas, and scheduling tasks with Airflow, **reducing manual efforts by 40%** and significantly boosting productivity.
- Implemented robust ETL pipelines for centralized data processing by leveraging **Apache Spark and Python (Pandas)** to extract, transform, and load data into an Oracle Data Warehouse, deploying automated validation frameworks, and reducing data errors by 35%.
- Led the migration of large datasets from **Cloudera and SQL Server to Snowflake** using batch processing and real-time data streaming techniques, achieving a 50% improvement in query performance and scalability for stakeholder data.
- Engineered data-driven insights and enhanced operational reporting by improving dashboard automation and implementing robust data quality checks using Python and SQL, resulting in actionable strategies that drove **in increase in revenue**.

Cognizant Technology Solutions **August 2020 – July 2021**

Junior Data Analyst *Bangalore, India*

- Performed exploratory data analysis (EDA) using seaborn and plotly to visualize multivariate relationships and identify outliers, **leading to a 15% improvement** in anomaly detection accuracy.
- Created **interactive Power BI dashboards** leveraging DAX formulas, custom measures, and SQL-based data transformations to create interactive KPIs and enable detailed exploration of data through advanced filtering and insights for internal reporting.

PROJECTS

Diabetes Patient Health Analytics System | *Tableau, Python, Data Processing, Data Loading, MS Excel, SQL, PowerBI*

- Analyzed a diabetes dataset to identify trends in health metrics like blood glucose, age, BMI, and lifestyle. Cleaned and preprocessed data using Python and Pandas, while SQL was used for database management. Visualized patient health trends with Tableau and Power BI, enabling healthcare providers to identify risk factors and recommend personalized treatment plans, ultimately supporting preventive healthcare and improving early diagnosis.

Hotel Booking Management System (Database Project) | *SQL, Postgres*

- Designed and built a hotel booking database to manage reservations, guest details, payments, and special requests. Enhanced booking trends analysis by creating tables and relationships in PostgreSQL, improving query performance through indexing and query refinement. Utilized ER diagram tools for database structure.

Credit Score Classification System: Banking | *Python, Pandas, Data Cleaning, Machine Learning, Data Visualization*

- Constructed a banking classification system to categorize credit scores as 'Poor,' 'Standard,' or 'Good,' improving risk management and fair lending. Deployed models like Random Forest, achieving 80.31% accuracy. Conducted feature importance analysis on a Kaggle dataset to identify key factors such as 'Outstanding Debt' and 'Credit Mix,' enhancing loan approval decisions, minimizing default risks, and refining creditworthiness assessment.

CERTIFICATES/ACHIEVEMENTS

- Gained practical expertise in data analysis, SQL querying, and visualization using Tableau and Power BI, enhancing data-driven decision-making and process optimization during the internship.
- AZ-900 Azure fundamentals by **Microsoft** | Data Analysis with Python by Coursera | Google data Analytics by **Google**