Ankitha Venkannagari
Data Engineer | Data Analyst
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PROFESSIONAL SUMMARY:

Success-Driven **Data Engineer** with around **4** years of experience in the IT industry, specializing in leveraging cloud platforms like **Microsoft Azure**, **AWS**, and **Oracle Cloud Infrastructure** to optimize data processing and integration. I excel in automating **ETL** pipelines using **Azure Data Factory** and **Oracle Data Integrator**, managing scalable data workflows with **Snowflake**, and designing robust data models to support analytics. My expertise extends to orchestrating **data warehousing** and **visualization** with tools like **Tableau**, **Power BI**, and **OBIEE**, empowering stakeholders with actionable insights. Skilled in scripting with **Python** and **SQL**, I streamline operations, improve data accuracy, and enhance system performance. Whether it's managing cloud storage solutions like **Azure Data Lake** and **Blob Storage** or collaborating through version control systems like **Git/GitHub**, I am dedicated to delivering scalable, efficient, and data-driven solutions that drive business success.

TECHNICAL SKILLS

Programming Languages	Python, SQL, C
Databases	MySQL, MS-SQL, Oracle, Data Modelling, Data Warehousing
Cloud Services	Amazon Web Services (S3, EC2), Oracle Cloud Infrastructure, Azure (ADF, Blob storage, Synapse Analytics)
Visualization Tools	Tableau, OBIEE, MS Excel, Power BI.
ETL Tools	Oracle Data Integrator, Azure Data Factory
Data Warehouse	Snowflake, Teradata
Frameworks & Tools	Pandas, NumPy, Matplotlib, Statistics, Agile, PySpark, Jira, Confluence, Visual Studio.
Version Control	Git, GitHub.
Web Technologies	IoT, HTML, MATLAB, Arduino IDE, CSS.

WORK EXPERIENCE

Company: Generic Solutions   **May 2024 – Till Date**
Role: Data Engineer   **Dallas, Texas**

- Utilized Azure Data Factory (ADF) to ingest data from APIs, flat files, and external databases, ensuring 99.8% accuracy in data integration and seamless flow across systems.
- Automated ETL pipelines to process raw data, achieving a 40% reduction in processing time and enhancing data accuracy and efficiency.
- Configured and managed Azure Data Lake and Azure Blob Storage to optimize data storage, reducing storage costs by 30% and improving accessibility.
- Integrated and transformed data from 10+ disparate sources, enabling faster reporting and reducing processing time by 35%.
- Applied complex transformation logics using Azure Synapse and SQL, streamlining data preparation and ensuring 98% data consistency for analytics and reporting.
- Designed optimized data models and used Power Query for ETL, ensuring seamless data integration and accurate reporting.
- Built interactive Power BI dashboards and reports using DAX for calculations and KPIs, enabling data-driven decisions.

Company: Cognizant   **Jan 2021 – Dec 2022**
Role: Data Engineer   **Bangalore, India**

- Directed the migration of data from Teradata to Snowflake, utilizing SQL and AWS S3, achieving a 98% success rate and improving data accessibility for analytics.

- Developed Python-based automation scripts for ETL workflows, reducing manual intervention by 40% and streamlining data migration processes.
- Optimized Snowflake procedures by transforming legacy Teradata SQL, achieving a 25% improvement in query execution times and seamless platform integration.
- Designed ETL pipelines to process and loaded GBs of data daily from Teradata to Snowflake, ensuring 99.5% accuracy and data consistency.
- Implemented data masking and encryption techniques to ensure compliance with data security standards, reducing security breaches by 20%.
- Resolved over 200 data conversion issues between Teradata and Snowflake, improving data integrity and eliminating datatype mismatch errors.
- Utilized AWS S3 and Snowflake's COPY command to reduce data retrieval time by 20%, enhancing operational efficiency.
- Analysed and restructured existing stored procedures, reducing runtime errors by 15% and enhancing maintainability and performance.
- Collaborated with Tableau developers to integrate Snowflake data into 10+ real-time dashboards, providing actionable insights to stakeholders.
- Documented and maintained logs for over 100 stored procedures, reducing system downtime by 20% and improving troubleshooting efficiency.

Company: Sunshine Technology   **Jan 2020 – August 2020**
Role: Software Engineer   **Hyderabad, India**
- Designed and implemented ETL processes using Oracle Data Integrator (ODI) 12c, creating mappings, models, and data stores to handle data from Oracle Developer source and target tables.
- Built and optimized data warehouse structures, including fact and dimension tables, using SQL to support data retrieval and reporting needs.
- Developed and managed ODI interfaces performed reverse engineering of data models, and validated data tables and attributes to ensure data accuracy and integrity.
- Used OBIEE to generate dashboards according to business requirements.

Company: National Skill Training Institute   **Jun 2019 – August 2019**
Role: IoT Engineer   **Hyderabad, India**
- Gained hands-on experience in developing and deploying IoT solutions using platforms such as Arduino, Raspberry Pi, and ESP8266/ESP32.
- Programmed microcontrollers in C and Python to collect sensor data and control actuators, enhancing device functionality.
- Implemented projects like smart home automation and environmental monitoring systems, leveraging sensors for real-time data processing and analysis.

EDUCATION

University of Cincinnati, Master of Science, Information Technology | Cincinnati, OH
April 2024
Relevant Courses (Human Computer Interaction, Cyber-Security, Advance Storage Technologies, Tech for mobile applications, System Administration, Cloud Computing**)**

PROJECTS

- **Tokyo Olympics Analytics**   **[Github]**
  - Designed and implemented an end-to-end data engineering pipeline using Azure services to analyze Tokyo Olympics 2021 data.
  - Automated data extraction from APIs and integrated data workflows with Azure Data Factory.
  - Transformed and processed large data sets using Azure Databricks with Scala for scalable data analysis.
  - Stored processed data in Azure Synapse Analytics for efficient querying and reporting using SQL queries.
  - Developed interactive Power BI dashboards to visualize performance metrics and trends.
- **British Airways Reviews Using Tableau**   **[Github]**
  - Designed an interactive Tableau dashboard to analyze more than 1,000 customer evaluations from British Airways (Kaggle) to spot important problems and visualize satisfaction trends.
  - Handled missing values, created calculated fields, and standardized data formats to clean and prepare the dataset for more thorough analysis.
  - With the aim to properly display consumer satisfaction and trends, a comprehensive dashboard featuring interactive visualizations—such as bar charts and line graphs—was designed.
  - Added interactive elements, such as tooltips and drop-down menus, to enhance the user experience and enable in- depth data analysis.

CERTIFICATIONS

- **Azure Fundamentals**
  Issued by Microsoft | February 2025
- **AWS Cloud Quest**
  Issued by Amazon Web Services | September 2024
- **AWS Academy Cloud Security Foundations**
  Issued by Amazon Web Services | November 2023
- **Tableau Fundamentals**
  Issued by Tableau learning | June 2024
- **Data Analysis**
  Issued by LinkedIn and Microsoft | November 2024
- **Hands-on Essentials in Snowflake**
  Issued by Snowflake | August 2024
- **Capstone: Retrieving, Visualizing Data, Programming with Python | Python Data Structures**
  Issued by Coursera | April 2020
- **Become a Linux System Administrator | System Administration and IT Infrastructure Services**
  Issued by Coursera | November 2022

REFERENCES

Available Upon Request