

Ankitha Venkannagari

Data Engineer

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PROFESSIONAL SUMMARY:

Success-Driven **Data Engineer** with **3.5+** 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

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|-------------------------------|--|
| Programming Languages | Python (Libraries, Modules, Pandas, NumPy), SQL, C |
| Databases | MySQL, 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 |
| ETL Tools | Oracle Data Integrator, Azure Data Factory |
| Data Warehouse | Snowflake, Teradata |
| Version Control | Git, GitHub. |
| Tools and 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 various sources, including APIs, flat files, and external databases, ensuring smooth data integration and flow across systems.
- Automated ETL pipelines to process raw data, reducing processing time by 40% and improving data accuracy and efficiency.
- Configured and managed Azure Data Lake and Azure Blob Storage for storing raw and processed data, optimizing storage costs by 30%.
- Integrated and transformed data from multiple sources to generate actionable insights, improving reporting speed by 35%.
- Applied transformation logic to prepare data for analytics and reporting using tools like **Azure Synapse** and SQL.
- Designed and developed interactive dashboards and reports in Power BI to visualize key performance metrics and trends, empowering stakeholders to make data-driven decisions.

Company: Cognizant

Jan 2021 – Dec 2022

Role: Data Engineer

Bangalore, India

- Developed stored procedures for comprehensive business analysis, enhancing business logic execution and reducing data processing time by 30%.
- Designed and implemented a Python-based automation solution for the data migration process, leading to a 40% reduction in manual efforts and associated operational costs.
- Transformed Teradata procedures (SQL) into optimized Snowflake procedures, improving execution speed by 25% and ensuring seamless integration between platforms.

- Utilized AWS S3 for data storage and retrieval, streamlining the process of loading data into Snowflake and reducing data retrieval times by 20%.
- Analyzed and optimized existing procedures, identifying enhancements and fixing bugs to improve performance and maintainability, resulting in a 15% reduction in runtime errors.
- Executed ETL pipelines to extract data from Teradata, perform transformations, and load it into Snowflake, enhancing data consistency and accuracy.
- Applied data masking and transformation techniques to ensure data security and compliance, protecting sensitive information across various data flows.
- Resolved data conversion issues between Teradata and Snowflake, including handling case sensitivity and datatype mismatches, which improved data integrity and reduced errors.
- Collaborated with cross-functional teams to integrate data flows into downstream Tableau dashboards, enabling real-time data visualization for business users.
- Maintained and documented stored procedure logs to monitor performance and troubleshoot issues, contributing to a 20% reduction in system downtime.

Company: Sunshine Techno Systems

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

- [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