

MAHESH PASALAPUDI

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Portfolio: <https://maheshportfolio-311f8.web.app>

Career Objective

Seeking to leverage my programming expertise and problem-solving skills to deliver impactful solutions and collaborate with a team of passionate professionals dedicated to excellence and continuous learning. Committed to coding standards, quality, and continuous learning for organizational success.

Education

Aditya college of engineering and technology – Surampalem, Andhra Pradesh Bachelor of Technology (MECHANICAL) – 7.0	Jun 2022
Aditya polytechnic college – Surampalem, Andhra Pradesh Diploma (MECHANICAL) – 7.1	May 2019
B.F.M.H School – East Godavari District, Andhra Pradesh S.S.C – 7.5	Apr 2016

Technical Skills

Front-End	HTML, CSS, Bootstrap
Back-End	Python, PHP
Databases	SQL, MYSQL, PySpark
Cloud	Azure , AWS (Databricks deployment), Terraform
Big Data Platform	Databricks, Azure Synapse, Snowflake
Soft skills	Good Communication, Team player, Adaptability and flexibility

Self-Projects

- **Azure Synapse to Databricks Migration:**
 - Designed and implemented an automation script to migrate structured data from Azure Synapse SQL Pools to Databricks using JDBC connectors.
 - Developed a configuration-driven approach to manage database/table exclusions during migration.
 - Utilized M5d.large clusters for data processing.
 - Created comprehensive validation scripts to perform row count comparison, schema validation, and data type checks post-migration.
- **Snowflake to Databricks Migration:**
 - Built automation scripts to migrate data from Snowflake to Databricks using JDBC connectors.
 - Implemented validation logic for row count, schema structure, and data type verification after migration.
- **Lakehouse Federation:**
 - Leveraged Databricks Lakehouse Federation to analyze and clean data in-place without physical migration.
 - Established federated queries for real-time data access and transformation.
- **Hive Metastore to Unity Catalog Migration:**
 - Created custom scripts to migrate Hive Metastore components (tables, databases, views, UDFs, permissions) to Unity Catalog.
 - Additionally, worked with Databricks UCX tool to automate part of the migration process.
 - Ensured compatibility and updated cluster configurations accordingly.
- **Automated Testing Framework for Migrations:**
 - Developed a reusable and modular automation testing framework for validating migrations across six different data sources (target: Databricks).

- Supported validation checks such as row count, schema differences, null counts, sum of numeric columns (by date), and data type consistency.
- **Vertica to Databricks Migration:**
 - Converted over 1,500 ANSI SQL files to Databricks SQL (DBSQL), including 300+ night batch pipeline scripts and cron job reports.
 - Automated the transformation of Vertica table metadata to Databricks-compatible formats.
 - Migrated 35TB of data from Vertica to Databricks, with successful validation of data integrity post-migration.
- **Developed an English Dictionary app using Python:**
 - Created a user-friendly Python dictionary app enabling word addition, search, and updates. Utilized a while loop for continuous interaction, JSON module for file storage, and input () for user input.
- **Alumni Career Analysis of Two Universities (Data analysis):**
 - Conducted thorough alumni career analysis using SQL on data from two universities. Explored passing years, courses, and career outcomes from .csv records. Revealed insights into career-institute dynamics. Enhanced SQL skills in data analysis and optimization.

Internships

- **Data Analyst Intern** -Empower X private limited (3months)
 - Gained hands-on experience in Python, SQL, Tableau, Excel
 - Worked on EDA on electronic appliances sales data, smart watches and cyber security Breaches
- **Full-Stack Web Developer intern** -Vulcan Techs (6months)
 - Gained hands-on experience in HTML, CSS, Bootstrap, javaScript, Ajax, JQuery, PHP and SQL.
 - Played a key role in the development and maintenance of a live admin portal, enhancing functionality and user experience.
 - Designed and implemented the frontend and backend of an ATM system, ensuring seamless functionality and user experience.

Certifications

- Databricks associate certification
- Databricks professional certification
- Terraform associate (003) certification
- Core and Advanced Python Programming, Skill-Lync
- SQL for Data Science, Skill-Lync
- Data Visualization using Tableau, Skill-Lync

Declaration

I, Mahesh, here by declare that the above-given information is true to the best of myknowledge as of now.