

Karthik U Kumar

Data Engineer

Results-driven Data Engineer with over 3 years of experience designing and implementing scalable cloud-based data platforms. Proficient in building ETL/ELT pipelines and enterprise data warehouses using Azure Synapse, Snowflake, GCP, and Informatica. Demonstrated expertise in Python scripting, data integration, and optimizing workflows to support business-critical analytics and reporting.

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WORK EXPERIENCE

Intern

Aavishk Sustainable Solutions Pvt. Ltd.

01/2020 - 07/2020

Bengaluru, Karnataka

Achievements/Tasks

- Developed a Fertilizer Database Management System enabling farmers to access detailed fertilizer information and purchase directly from dealers.
- Designed and managed a MySQL database to securely store and retrieve fertilizer details.
- Optimized the system for efficient data handling, improving the user experience for farmers and dealers alike.

Data Engineer

Lumen Technologies India Pvt. Ltd.

08/2021 - Present

Bengaluru, Karnataka

Achievements/Tasks

- Led transition from SAP to Azure Synapse Lakehouse, designing Power BI dashboards for financial reports.
- Increased the performance by 65 percentage and reduced the manual intervention to 10 percentage.
- Implemented CI/CD on Azure DevOps for seamless production deployment.
- Construct a detailed data model, illustrating the lineage and flow of data through all layers of the system.
- Partnered with Google to automate Hadoop-to-cloud migrations (BigQuery, Azure, Databricks).
- Trained over 150+ people on Snowflake architecture.

EDUCATION

PUC

Sri Bhuvanendra PU College

06/2015 - 03/2017

95.6%

Bachelor of Engineering

NMAM Institute of Technology

08/2017 - 08/2021

9.25

SKILLS

Azure Synapse Analytics	Snowflake Datawarehouse
Informatica	Python
Advanced SQL	Shell Scripting
Data Warehousing	Power BI
Google BigQuery	Data Modelling
Azure Data Factory (ADF)	Pyspark
Fivetran	Git

PROJECTS

Snowflake Implementation

- Spearheaded move to a dynamic self-service reporting platform using Snowflake.
- Construct a detailed data model, illustrating the lineage and flow of data through all layers of the system.
- Built automated data pipelines via Informatica cloud, integrating SAP data for financial and sales reporting.
- Reduced the query processing time up to 30 percentage.

Azure Synapse Lakehouse Implementation

- Led transition from SAP to Azure Synapse Lakehouse, designing Power BI dashboards for financial reports.
- Built and optimised data pipelines for financial data using Azure Data Factory as ETL tool and Spark.
- Implemented Medallion architecture consisting of Bronze, Silver and Gold layers.
- Implemented CI/CD pipelines on Azure DevOps for seamless production deployment.

Universal Automation Tool Development

- Developed Python scripts and APIs for efficient workload migration from Hadoop to cloud platforms.
- Automated both databases and workloads to Databricks. Setup auto loader for efficient incremental loads in a scheduled manner.
- Leveraged Apache Airflow to schedule all the workloads in cloud warehouses like GCP BigQuery and Azure Databricks.
- Developed scripts to generate health reports to assess source systems.

ACHIEVEMENTS

Certified in Azure (AZ - 900) - Microsoft Azure Fundamentals. (2022)

I conducted a Snowflake training session for internal team members, facilitating hands-on learning, providing key insights, and addressing questions to enhance their platform expertise. (2023)