




Vivek Jaganath


I am a results-driven data engineer with 3+ years of experience in designing and maintaining data infrastructure and pipelines. Skilled in a variety of data platforms and programming languages, I specialize in optimizing data pipelines for performance and scalability, implementing data security measures, and automating data management tasks. I am committed to delivering high-quality work and collaborating effectively with cross-functional teams to meet business requirements.

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Skills:

Python

aws - API Gateway

aws – DynamoDB

aws – serverless functions

aws - RDS

Apache Airflow

Apache Kafka

DuckDB

MongoDB

Psql

DBT

terraform

Docker

Kubernetes

Git CD/CI

Power BI

Tableau

MS Power Automate

Work Experience:

Data Engineer

Sayway Gmbh

06/2022 – Present

Achievements/Tasks :

- Collaborated with data scientists and analysts to identify data needs and requirements.
- Designed and maintained APIs with authentication and validation to enable secure access to data.
- Designed and maintained a data lake to store and manage large volumes of structured and unstructured data.
- Developed Python and Ruby scripts to extract data from the data lake and load it into various systems.
- Designed OLTP databases to support efficient write operations.
- Developed DBT models to transform data from the OLTP databases into structured formats suitable for analysis.
- Designed OLAP databases to support fast read operations for analytical queries.
- Monitored data pipelines and resolved issues as they arose to ensure data quality and integrity.
- Optimized data pipelines for performance and scalability to handle increasing data volumes.
- Maintained documentation and metadata for data pipelines to enable effective collaboration and knowledge sharing within the team.

Data Analyst

Uniper IT

07/2019 – 05/2022

Achievements/Tasks :

- Daily tasks include maintaining data consistency across ETRMs.
- Communicate with various stakeholders for validation of the data maintained.
- Writing Python scripts for data clean up and analysis.
- Data visualization with power BI.
- Provide gaps based on the analysis of the reports.
- Apart from regular business, involved in the Digitalization process.
- Understand the workflow of various teams and developing automation solutions for reducing manual work and increasing the team's efficiency.

Education:

Masters in Computer Science

University of Paderborn

Paderborn, Germany

09/2017 – 09/2020

- Coursework in machine learning, planning and heuristics, intelligence in embedded systems, Interactive data visualization and human-computer interactions.
- Seminars on "Neural Networks", "Current Advances in Network Softwarization" and "Device to Device Communications"

Master's Thesis:

Evaluation and Development of a Python-to Hardware Tool Flow

15/01/2020 – 09/2020

- Worked on an open tool developed by University of Southern California called Hot and spicy.
- Involves translating Python's data structures required for machine learning to C/C++ data structures with type casting.
- Implementing found solution on Xilinx FPGA boards
- Evaluation of the results to show how Python can be used as HLL for FPGA's.

Certifications:

- IBM Data Science Professional certificate
- MongoDB for Developers
- Machine learning Foundations: A case study approach
- Tableau Desktop Qualified Associate Certification
- AWS Fundamentals Specialization
- Advanced AI: Deep Reinforcement Learning in Python
- Bayesian Machine Learning in Python: A/B Testing
- Power BI A-Z: Hands-On Power BI Training For Data Science!

Languages:

- English – Professional Proficiency – C2
- German – Elementary Proficiency – A2

Personal Interests:

- hiking and camping.
- writing poems and abstract painting.
- Cooking continental dishes.