


 <https://github.com/satishf889>

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SATISH FULWANI

Associate Staff Data Engineer | Data Science | 3x AWS Certified
MTech in Data Science and Engineering from BITS, Pilani



SUMMARY

Experienced and versatile **Staff Data Engineer** with 6+ years of delivering scalable, cloud-native data solutions across diverse industries, including **Media & Entertainment, Insurance, and Nutrition**. Proven expertise in architecting end-to-end data pipelines using **Azure Data Factory, Databricks, PySpark**, and **AWS services** such as **Glue, Lambda, S3**, and **DynamoDB**. Strong background in building data platforms that enable personalized content delivery, actuarial analytics, and health-focused insights through efficient, secure, and real-time data processing.

In my most recent role, I led a team of **3 data engineers** to successfully modernize a legacy data platform by **migrating** it to Azure, improving pipeline efficiency, and reducing processing time by over **40%**. I bring a strong understanding of data modelling, ETL/ELT workflows, and automation strategies that enable organizations to make **data-driven** decisions faster and with greater accuracy.

I'm passionate about driving engineering excellence, mentoring junior team members, and collaborating with cross-functional **stakeholders** to align data strategy with business goals.

TECHNICAL SKILLS

FRAMEWORKS

Hadoop, Databricks, Spark, NumPy, Pandas, Keras, SciPy

ML/DL TECHNIQUES

Convolutional Neural Networks, Random/Decision Forests, Logistic Regression

TOOLS & LANGUAGES

Python, Azure, Amazon Web Services (AWS), Node.js, JavaScript, Java, Jenkins, SQL, PySpark

DATABASES

RDMS(PostgreSQL), DynamoDB (NoSQL), Azure DB

CO-CURRICULAR

- Awarded **BRIGHTEST MIND** award by Nagarro.
- Won **2nd Prize** in Accenture AI Hackathon conducted in August, 2019
- Awarded **APEX Award** 2 times for Delivery and Profitability
- Developed Mail Automation System for Human Resource Team for sending bulk mail using Python

CERTIFICATIONS

- GCP Certified **Cloud Digital Leader** | GCP, DEC'22
- AWS Certified **Machine Learning- Speciality** | AWS, Mar'20
- AWS Certified **Cloud Practitioner** | AWS, Mar'20
- AWS Certified **Developer- Associate** | AWS, Sep'19
- Machine Learning Advanced** Nanodegree | Udacity, Jan '19
- Machine Learning Foundation** Nanodegree | Udacity, Apr '18

EDUCATION

BITS PILANI

APR'21-APR'23
PILANI, RJ

MTECH DATA SCIENCE & ENGINEERING

BITS, PILANI
CGPI – 7.18/10

MUMBAI UNIVERSITY B.E. COMPUTER SCIENCE

JUN'14-JUN'18
MUMBAI, MH

VESIT, MUMBAI
CGPI – 7.19/10

MAHARSHTRA STATE BOARD Higher Secondary School (10+2)

JUN'12-JUN'14
AKOLA, MH

MAHERBANU COLLEGE, AKOLA
PERCENTAGE – 78.15%

PROFESSIONAL EXPERIENCE

Role: STAFF DATA ENGINEER

Feb'23-Present
Pune, IN

Company: NAGARRO INDIA PVT LTD

Industry: Asia's Largest Insurance Company

Project: End-to-End Data Pipeline Implementation in Azure Cloud

Technologies: Azure Databricks, Spark (PySpark), Python, Azure Data Factory, Azure Synapse, Azure Storage, SQL Server, SAP, Flat Files

Led a key project to modernize and migrate legacy data pipelines to **Azure Cloud**. This project aimed to improve processing efficiency and scalability by designing new **ETL/ELT workflows** using **Azure Data Factory** for orchestration and **Databricks** for big data processing. The migration enabled real-time data analytics and better decision-making for the business.

Key Achievements:

- Migrated over 1TB of data to **Azure SQL DB** with zero downtime.
- Reduced data processing time by 40%.
- Developed real-time data pipelines to support business intelligence.
- Enhanced pipeline reliability, allowing for future scalability.

Role: DATA ENGINEER CONSULTANT

Aug'21-Feb'23
Mumbai, IN

Company: DELOITTE ILLP

Industry: Dutch Nutrition Company

Project: Solving Complex Big Data Issues Based on Business Needs

Technologies: Hadoop, Spark (PySpark), Python, AWS Glue, AWS EMR, AWS S3, AWS Sagemaker, SAP BW, Microsoft Dynamics (CRM)

As a Data Engineer, I resolved complex big data challenges by aligning data engineering strategies with dynamic business needs. Worked across departments to identify data quality issues, processing bottlenecks, and scalability gaps in high-volume data systems. Designed and implemented solutions using **AWS Glue, AWS EMR, AWS S3, AWS Sagemaker**, focusing on performance, reliability, and cost-efficiency.

Key Achievements:

- Reduced data pipeline latency by 40% through optimized transformation logic.
- Improved data quality by 55% via automated validation and cleansing.
- Cut operational costs by 20% through resource-efficient job orchestration.
- Enabled near real-time reporting, enhancing executive decision-making.

Role: BIG DATA ENGINEER

Oct'18– Aug'21
Bangalore, IN

Company: ACCENTURE PVT LTD

Industry: US based Media & Entertainment Client

Project: Design & Orchestrate Efficient, Cost-Effective Data Pipelines on AWS

Technologies: Node.js, AWS EC2, DynamoDB, Other AWS Services

Designed, engineered, and orchestrated highly efficient and cost-effective step functions on AWS to ingest and process data from multiple heterogeneous sources. Focused on building scalable, fault-tolerant, and performance-optimized workflows using serverless technologies, ensuring seamless data integration and real-time availability for downstream analytics.

Key Achievements:

- Developed serverless architecture using AWS Lambda, Queues and other AWS services.
- Framework helped migrated **1.5 million assets** from an on-premises system to the cloud.
- Developed an automated tool to generate zip files up to **60GB** in size containing on-premises data and copy that data to Digital Asset Management (**DAM**) tool.
- The tool's **architecture** utilized the least number of dedicated AWS EC2 instances and the most amount of all other AWS Serverless Solutions, reducing the migration expense to \$100.

PROJECT PORTFOLIO

FRUIT CLASSIFIER | DEEP LEARNING | APR'23

- Conducted an in-depth research project as part of a master's program, focusing on solving a real-world problem using data-driven techniques. Designed and implemented data pipelines, performed advanced data analysis, and built models aligned with academic and industry standards
- Fruit Classifier is a Machine Learning Model built using Convolutional Neural Network (**CNN**) and Deep Neural Network that **predicts** the fruit names in an image, inspired by the notion of "Intelligent Farming."

SALES24 | AWS & NODE.JS | OCT'19

- SALES24 is a proof-of-concept serverless website for selling and buying old goods.
- The technologies being used are AWS API Gateway, AWS Lambda, AWS DynamoDB & Amazon S3. The user authentication process is managed by an API Authoriser.

DOG BREED CLASSIFIER | MACHINE LEARNING | JUL'18

- Supported the deployment and training of cutting-edge CNN models using backpropagation and chain rule.