

JAGADEESH DASARI

Senior Big Data Engineer

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SUMMARY

Big Data Engineer with over 2 years of experience in building and optimizing end-to-end data pipelines using technologies like AWS, PySpark, Hadoop, and Spark. Certified in Big Data technologies with a strong emphasis on data handling, transformation, and pipeline efficiency. Recent work includes:

- Engineered scalable, end-to-end data pipelines using AWS, PySpark, and Hadoop.
- Building predictive propensity models to help the business identify high-potential customers and optimize outreach efforts.
- Currently focused on building AI-integrated data architectures, combining machine learning models with big data pipelines.

TECHNICAL SKILLS

Languages: Python, PySpark, SQL, C++

Technologies: Machine Learning, Hadoop Ecosystem, HDFS, Kafka Informatica, Hive, Impala

DevOps-Tools: Jira, Jenkins, JupyterNotebook, Hue, SQLDeveloper, BitBucket, CI/CD, PowerBI

Cloud Services: AWS Console, AWS RDS, S3, IICS

EXPERIENCE

Senior Data Engineer, Axis Bank - Business Intelligence Unit

Apr 2025 – Present

- Designed and implemented a **Spark** job monitoring and **Data Quality (DQ)** framework, maintaining a centralized job master and run history to audit performance, track long-running jobs, optimize resource utilization, and reduce failure rates.
- **Built a reusable enterprise-wide encryption** and decryption module for handling **PII data**, ensuring secure processing and compliance across all customer-facing banking systems.
- **Developing propensity models** to predict and identify high-potential customers, enabling the business to optimize outreach strategies and improve customer acquisition efficiency.

Data Engineer, Axis Bank - Business Intelligence Unit

July 2023 – Present

- Optimized real-time **Kafka** streaming pipelines to ingest credit card transaction data from various sources, reducing data latency by **30%** and improving fraud detection capabilities.
- Developed and automated **ETL workflows** using **Informatica, PySpark, AWS and SQL** for ingesting and transforming credit card data, supporting BI dashboards, machine learning models, and reducing legacy release turnaround from **20 to 4** hours.
- Led the development of the **Credit Card Acquisition** Data Mart and integrated **CASA** co-origination logic, enabling campaign analytics, funnel analysis, ELK dashboards, and Power BI reports to drive data-informed decisions across credit card operations.

PROJECTS

Automated DQ and Source Handshake Framework | *PySpark, Hive, HTML Email Reporting, SQL*

- Designed and implemented a modular, metadata-driven **Data Quality (DQ) framework** using PySpark to monitor source load consistency, null checks, distribution skews, and schema validations.
- Automated **source handshake detection** logic with retry mechanisms and alerting, ensuring timely data ingestion and reducing manual interventions by **90%**.
- Built HTML-based visual email reports featuring conditional formatting, column-level comparisons, MoM (month-over-month) analysis, and summary statistics for daily DQ health checks.

Azure-Based End-to-End Pipeline | *Azure Data Factory, Databricks, PySpark, Synapse, SQL*

- Designed and implemented an end-to-end ETL pipeline using **Azure Data Factory** to ingest Olympic 2021 data from GitHub into **Azure Data Lake Gen2**.
- Developed and executed transformation logic in **Azure Databricks** using **PySpark** for data cleaning, typecasting, deduplication, and partitioning.
- Wrote transformed data back to Data Lake and connected **Azure Synapse Analytics** for querying and deriving insights using SQL.
- Managed resource groups, storage configuration, and secure access using **Azure IAM, App Registration, and mounting techniques**.

CERTIFICATES

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| • Big Data Modeling and Management Systems | Certificate |
| • Spark, Hadoop, and Snowflake for Data Engineering | Certificate |
| • Introduction to Big Data with Spark and Hadoop | Certificate |

EDUCATION

Indian Institute of Technology, Dhanbad	2019 - 2023
<i>Bachelor of Technology - Mechanical Engineering</i>	<i>CGPA - 7.61</i>