# Prasad Dattaram Deshmukh

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#### PROFESSIONAL SUMMARY

Results-driven AWS Data Engineer with 6+ years of experience in data engineering, cloud computing, and big data technologies. Proficient in AWS (Glue, Lambda, S3, EventBridge, DMS), Snowflake, SQL, and Python, with expertise in designing and implementing scalable data pipelines, ETL workflows, and real-time data processing solutions. Skilled in modernizing data architectures, optimizing performance, and ensuring high availability in cloud-based data warehousing solutions. Strong background in REST APIs, microservices, and CI/CD best practices for data-driven applications. Proven ability to collaborate with cross-functional teams, lead agile development, and deliver high-quality, cost-efficient solutions aligned with business objectives.

#### PROFESSIONAL EXPERIENCE

Mastek UK LTD Leeds, UK

Software specialist I

Nov 2022 - Present

- Migrated GDPR data processing from Parquet to Delta Tables in S3, upgrading ingestion pipelines to support delta format and automating data depersonalization via AWS Glue.
- Designed and implemented a metadata-driven ingestion framework that automates external table creation in S3, base views, and dynamic masking rules for PII columns.
- Enhanced API performance by 75%, optimizing queries, caching, and indexing, leading to a \$19K annual cost saving.
- Built a Serverless Data Ingestion Framework using AWS Glue, RDS to extract data from SQL Server, FTP, DynamoDB, and S3, transforming data into Parquet format for efficient storage and analytics in Datalake.
- Reduced ETL execution time by 60% through parallel processing, Snowflake materialized views, query optimizations, and resource tuning.
- Developed a Streamlit-based web application for Excel/CSV uploads, allowing users to apply custom transformations and insert data into Snowflake, with automated deployment.
- Integrated S3 with Snowflake by exposing Parquet and Delta tables as external tables, improving query performance and reducing data latency using materialized views.
- Optimized S3 storage costs by 30% through object lifecycle policies, intelligent tiering, and storage class selection.
- Implemented a cost-effective Snowpipe solution using S3, EventBridge, and SNS, ensuring real-time data ingestion and pipeline automation.
- Developed a Data Availability Trigger Framework leveraging AWS EventBridge, Step Functions, Lambda, and Snowflake stored procedures, integrating SES/SNS for real-time notifications.
- Implemented a Test Data Generator (TDG) framework for anonymizing sensitive data, enabling Data Science teams to train models on production-scale datasets without privacy risks.
- Led a team of 5+ engineers, mentoring in best practices, performance tuning, and CI/CD automation using Azure DevOps.

Mastek Ltd Mumbai, Maharashtra, India

Senior Software Engineer

- Dec 2018 Nov 2022
- Optimized SQL queries and ETL pipelines, reducing data processing time by 45% and improving query performance by 50%.
- Automated data validation and transformation, increasing data accuracy by 98% while streamlining ingestion workflows.
- Implemented monitoring and root cause analysis dashboards, reducing production incidents by 40% and improving troubleshooting efficiency.
- Developed AWS Quicksight reports and CloudFormation templates, enabling cross-environment report automation.
- Collaborated with Data Science teams to optimize data pipelines, improving ML model training efficiency and feature engineering processes.

#### **EDUCATION**

Mumbai University August 2015 - March 2018

Bachelor's, Computer Engineering

Maharashtra State Board June 2012 - May 2015

Diploma In Information Technology

## **CERTIFICATIONS**

**AWS Certified Developer – Associate** | Amazon Web Services (AWS) |

### **SKILLS**

Programming Languages: Python, SQL, Java, JSON

Database: RDBMS, MS SQL, MySQL, Postgres, SQLite, NoSQL, MongoDB, Redis

BI Tools: Quicksight, Pyramid Analytics

Hadoop-Ecosystem: HDFS, Spark, Hive, Pyspark

ETL Tool: Pentaho Data Integration

Web Technologies: HTML/CSS, REST APIs

Cloud Platforms: Amazon Web Services (AWS), Snowflake

AWS Services: Glue, Lambda, EMR, Athena, Cloud Formation, API gateway, DynamoDB, Step Function, Event bridge, S3, DMS etc.

Version Control: Git (GitHub), Azure DevOps (Azure Repos), Docker