

# Parth Panchal

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## Profile

Seasoned **Sr. Big Data Engineer** with **4.5+** years of experience in developing robust big data solutions, ETL workflows, and cloud-native applications. Proficient in Java, Scala, Python and Spark with expertise in AWS services. Adept at designing scalable architectures, implementing data pipelines, and delivering actionable insights through advanced BI tools.

## Experience

### **SR. BIG DATA ENGINEER | RYDOT INTUIT PVT. LTD. | NOVEMBER 2020 – APRIL-2025**

- Engineered and optimized ETL pipelines using Spark, Scala, and AWS services to process multi-terabyte datasets.
- Designed cloud-native applications utilizing AWS services such as EMR, Lambda, and Step Functions.
- Implemented data visualization dashboards using Quick Sight & Power BI for actionable business insights.
- Developed secure APIs for enterprise applications using Spring Boot and integrated OAuth2.

### **SR. BIG DATA CONSULTANT | FREELANCE SERVICES | APRIL-2025 – CURRENTLY WORKING**

- Designed and implemented cloud-native data architectures leveraging AWS services such as Glue, Redshift, Amplify and Lambda for scalable and cost-effective data processing.
- Built robust ETL/ELT pipelines using AWS Glue and State machine to orchestrate ingestion, transformation, and loading of structured and semi-structured data.
- Optimized data lake and warehouse performance with efficient partitioning, compression, and metadata management using S3, Lake Formation, and Redshift Spectrum.
- Ensured security, compliance, and observability through IAM, CloudTrail, and CloudWatch for end-to-end data workflow monitoring and governance.

## Education

### **BACHELOR OF ENGINEERING IN COMPUTER | 2016-2020 | GOVERNMENT ENGINEERING COLLEGE, MODASA | GUJARAT TECHNOLOGICAL UNIVERISTY (GTU)**

## Technical Skills

- Programming Languages: Python, Scala, Java
- Big Data Technologies: Spark, Hadoop
- Databases: MongoDB, MySQL, MsSQL, Redshift, DynamoDB, Oracle
- BI tools: Power BI, Quick sight
- Frameworks: Spring Boot, Scala Play, Akka Http
- Cloud Services: AWS (EMR, Glue, S3, Lambda, Redshift, DynamoDB, Amplify, State Machine, Event bridge)
- Other Frameworks: Apache Camel, MyBatis, ActiveMQ, RabbitMQ
- Big Data Tools: Alteryx Designer, Data Robot AI Catalog, Databricks

## Key Projects

### SR. BIG DATA ANALYST (FREELANCE SERVICES)

- Integrated Google Analytics and Google Ads connectors with AWS Glue to automate data ingestion, enabling the creation of dynamic BI dashboards and actionable business insights.
- Migrated 35 DynamoDB tables to Amazon Redshift by designing optimized table schemas, performing precise data type mappings, and executing efficient data transfer to ensure high-performance querying in Redshift.
- Developed BI dashboards in Amazon Quick Sight with structured folder organization and user/group-based access. Implemented Quick Sight's security matrix, including row-level security, to ensure data confidentiality and region-specific access control for end users.
- Conducted IAM role and user access audit for an AWS account, ensuring adherence to the principle of least privilege and strengthening security posture across the IT organization.
- Technologies: Python, Pyspark, AWS (IAM, S3, Glue, Lambda, Amplify, State machine, Event bridge, Quick Sight), GCP (Google Analytics, Google Ads).

### BOOKMYSHOW MIGRATION

- Migrated 10+ TB data to S3 and Redshift; automated pipelines with EMR and Glue.
- Created Quick Sight dashboards for operational insights.
- Technologies: Spark, Scala, Redshift, S3, Lambda, Glue.

### REVEL INFORMATICS

- Built dynamic ETL pipelines for structured and semi-structured data sources.
- Designed custom analytics dashboards incorporating global filters.
- Developed and integrated business logic into Java Spring Boot microservices, incorporating Spring Security with OAuth2 authentication.
- Technologies: Spark, Scala, Java, Spring Boot, MongoDB, MySQL, Superset, Elasticsearch.

### SWAYAM CLOUD PLATFORM

- Developed AWS Cloud APIs for AWS resource auditing and Building of Materials (BOM) processing.
- Created Quick Sight dashboards for operational insights.
- Technologies: Java, API Gateway, Redshift, S3, Lambda, Glue, DynamoDB, EC2, IAM.

### ADAMA FARMER APP

- Designed and developed the backend for a web CMS and mobile application using the Scala Play framework.
- Integrated Skymet Weather APIs to provide accurate and location-specific weather reports for farmers.
- Designed and implemented a campaign management module to send targeted messages and announcements to farmers.
- Technologies: Scala-SBT, Scala Play, MongoDB.

## Achievements

- Published multiple technical blogs on AWS solutions (<https://awspcube.blogspot.com/>).
- Contributed to open-source Big Data tools (Alteryx Designer & Data Robot AI Catalog) and frameworks.