

PROFESSIONAL SUMMARY:

- Around **6 years** of experience in the IT industry, specializing in data mining with large structured and unstructured datasets, including data acquisition, validation, predictive modeling, and visualization.
- Implemented various solutions for big data analytics, cloud data engineering, data warehousing, data mart, data virtualization, and data quality across multiple projects.
- Proven experience as a Data Engineer working on **Amazon cloud services, Big Data/Hadoop applications, and product development.**
- Expertise in data ingestion, transformation, and integration using tools such as **BigQuery, Cloud Run, and Qlik (Attunity)**
- Extensive hands-on expertise with AWS services such as **EC2, S3, Glue, Athena, DynamoDB, and Snowflake.**
- Designed and deployed **monitoring, metrics, and logging systems** on AWS, ensuring optimal performance.
- Experience in **MongoDB** cluster deployment, management, and development for scalable NoSQL solutions.
- Proficient in **Docker container orchestration** using **ECS, Glue, and Lambda** for efficient deployment and scaling.
- Skilled in **SQL Azure, Amazon Redshift, RDS, and other cloud databases and data warehouses.**
- Strong Experience in working with Databases **like Oracle 10g, DB2, SQL Server 2008 and MySQL** and proficiency in writing complex SQL queries.
- Migrated **Cassandra and Hadoop clusters** on AWS, optimizing data processing strategies.
- Strong SQL development skills, including writing **Stored Procedures, Triggers, and Views.**
- Proficient in **Databricks, Spark-Scala, PySpark, and MapReduce** for unified data analytics.
- Developed **ETL** applications using **SSIS/DTS** Packages for large data volumes.
- Configure Jenkins to build **CI/CD pipeline** which includes triggering auto builds, auto promote builds from one environment to another, code analysis, auto version etc. for various projects.
- Proficient in **Tableau, Power BI, and other data visualization tools** for reporting and dashboards.

EDUCATION:

The University of Texas at Dallas, Dallas

Dec 2023

Master of Science, Business Analytics, 3.5

• Coursework: Advanced Statistics, Predictive Analytics, Prescriptive Analytics, Time Series and Econometrics, Data Visualization, Big Data.

Sathyabama Institute of Science and Technology, Chennai

May 2018

Bachelor of Engineering, Mechanical Engineering, 3.4

CERTIFICATIONS: Python Essentials, AWS Cloud Practitioner, and SQL.

TECHNICAL SKILL:

DBW Tools	Business Objects XIR2 and XI 3.0, XI 3.1, BI 4.0 / 4.1
Programming Languages	Python, Java, C++, SQL, Scala, Oracle, GraphQL, CloudFormation
Dashboard Tools	Tableau 8.x, 9.x, Power BI, Jupyter Notebooks, Qlik Sense, SAS, MATLAB
Frameworks/Platforms/Cloud	AWS, GCP, Docker, Flask, Django, Angular, Kubernetes, Helm, API Gateway, Microservices
Environment	Linux, Windows 2008, windows 2003, XP, Jenkins, CI/CD environment
Database	Oracle Exadata, MongoDB, NoSQL, Cassandra
Machine Learning	Scikit-learn, KNN, Random Forest, K-Means Clustering, Logistic Regression, Regression Analysis, Statistical techniques

Other Tools	HADOOP (HDFS, SQOOP, PIG, HIVE, HBASE), HPQC, WINSCP, DataDog, Git, Apache Kafka, AWS Kinesis, Apache Spark, Jupyter Notebook, Terraform
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PROFESSIONAL EXPERIENCE:

Client: Meta Bank

May 2023 – Till date

Data Cloud Engineer with AWS

- Designed and Developed ETL Processes in AWS Glue to migrate Campaign data from external sources like S3, ORC/Parquet/Text Files into AWS Redshift.
- Hands-on experience with CI/CD practices and tools such as Jenkins, Terraform, and Gitlab, ensuring seamless integration and continuous delivery of software, leading to a 15% reduction in deployment time.
- Developed and maintained robust data pipelines using DBT, Airflow, and Kafka, ensuring timely and error-free data flow across various financial systems, improving operational efficiency by 30%.
- Automated 80% of data ingestion pipelines by developing and integrating RESTful APIs, reducing manual intervention and enhancing data flow consistency across systems.
- Configured and managed replica/snapshot settings in the pipeline to handle CDC files in GCP storage buckets.
- Leveraged AWS (Lambda, Glue, EC2, SNS, RDS) to build and scale secure, high-performing data infrastructure, achieving a 40% improvement in data processing times and enhancing system reliability.
- Set up security views in BigQuery to control and restrict access to sensitive data, ensuring compliance with data governance policies.
- Implemented analytics applications using multiple database technologies, such as relational, multidimensional (OLAP), key-value, document, or graph.
- Engineered high-performance data pipelines using DataFlow and DataProc, leading to a 40% reduction in batch processing times and enabling real-time analytics for business teams.
- Built scalable, API-driven data ingestion pipelines, leveraging Google Cloud Storage (GCS) to process and store over 500GB of data daily.
- Implemented automated unit and integration tests using PySpark, reducing testing time by 40% and ensuring data accuracy in ETL workflows.
- Utilized Git for version control, promoting collaboration across the data engineering team of 15+ and ensuring seamless integration of new features and updates into the data architecture.
- Developed user-friendly UI screens using ReactJS and NodeJS, improving data visualization efficiency by 25% for business intelligence teams.
- Conducted data validation and testing to ensure accuracy and reliability of data pipelines and ETL processes.
- Integrated Jenkins with Kubernetes clusters (AKS/EKS) to facilitate continuous integration and delivery, enhancing deployment efficiency by 35%.
- Developed Python-based data pipelines integrating with Airflow and Cloud Composer, reducing processing time by 25% for large-scale ETL processes.
- Designed and implemented distributed data processing workflows using PySpark and HDFS, improving data processing speeds by 50% for datasets exceeding 1TB.

Mordor Intelligence Private Limited, India

January 2020 - December 2021

Data Engineer

- Leveraged cloud-based ETL pipelines using BigQuery and Cloud SQL, improving query performance by 40% and reducing costs by 15% through optimized resource management.
- Streamlined API calls to automate the validation of data flows between systems, reducing errors by 30% in real-time data processing.

- Migrated legacy on-premises data stores to BigQuery, leading to a 20% increase in query performance and scalability for analytics workloads.
- Experience in Developing Spark applications using Spark - SQL in Databricks for data extraction, transformation, and aggregation from multiple file formats.
- Designed and developed scalable data pipelines to ingest data from various sources into Amazon Redshift using AWS Glue, Kinesis, and Lambda functions.
- Implemented ETL processes to transform and load data into Amazon Redshift, ensuring data quality and integrity.
- Collaborated with front-end teams to integrate API-driven data streams into React-based dashboards, enhancing real-time data analytics by 15%.
- Configured and managed real-time data streams using Amazon Kinesis for efficient data processing and analytics.
- Set up and maintained security configurations, including IAM roles, policies, and data encryption, to ensure compliance with data governance and security standards.
- Developed 20+ ad-hoc reports and visualizations using AWS Athena and QuickSight, facilitating effective decision-making for key stakeholders.
- Implemented data replication strategies using AWS Database Migration Service (DMS) to ensure data consistency and availability.
- Led the design of end-to-end automated testing pipelines for APIs, increasing test coverage by 35% and improving fault detection rates by 50%.
- Automated infrastructure deployments using Cloud Shell scripts, improving deployment speeds by 30% and ensuring consistency across cloud environments.

Invesco, India
Data Engineer

June 2018 – December 2019

- Managed Unix-based environments for deploying, configuring, and maintaining applications in production.
- Defined data contracts, and specifications including REST APIs.
- Extensive experience in data transformation and analytics using Alteryx, optimizing data workflows, and automating processes to increase efficiency and productivity.
- Responsible to build and run resilient data pipelines in production and implemented ETL/ELT to load a multi-terabyte enterprise data warehouse.
- Worked closely with Data science team and understand the requirement clearly and create hive table on HDFS.
- Communicated with cross-functional teams to streamline data pipeline monitoring and troubleshooting using Splunk and Grafana, while documenting run books in confluence, saving 10 hours per week.
- Solved performance issues in Spark with understanding of groups, joins and aggregation.
- Designed a Live Analysis dashboard in Power BI to track real-time finance data and predict customer behavior metrics and trends, revising and narrowing analytical operations by 80%.
- Optimized PySpark jobs for Hive and HDFS, reducing processing time by 30% and ensuring efficient resource utilization in a cluster environment.
- Responsible for loading data from UNIX file systems to HDFS. Installed and configured Hive and written Hive UDFs.
- Was responsible for creating on-demand tables on S3 files using Lambda Functions using Python and PySpark.
- Created End-to-end ETL pipeline for data processing for created dashboards to business using PySpark.
- Developed spark programs using python APIs to compare the performance of spark with HIVE and SQL and generated reports monthly and daily basis.
- Developed dataflows and processes for the Data processing using SQL (SparkSQL & Data frames).
- Understood business requirements and prepared design documents, coding, testing and go on live production environment.
- Involved in planning process of iterations under the Agile Scrum methodology, performed gap analysis, collected requirements, and performed data discovery and data profiling for the application.