

Bandhan Singh

Data Engineer

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[LinkedIn](#) | [GitHub](#)

SUMMARY

Skilled Data Engineer with hands-on expertise in building scalable data pipelines using PySpark, ADF, Databricks, and Kafka. Experienced in ETL development, data migration, and production deployment across SAP HANA, Oracle, and cloud environments. Focused on delivering reliable, high-volume data solutions for enterprise analytics and reporting.

EDUCATION

BTech in Computer Science and Engineering

2019-2023 | 7.9 CGPA

IK Gujral Punjab Technical University

Higher Secondary (12th PCM)

2018-2019 | 87%

Government Sri Ranbir Model Higher Secondary School (JKBOSE)

WORK EXPERIENCE

Jio (Reliance Industries Ltd)

Navi Mumbai

Data Engineer

Jan 2024 – Present

- Led the migration of the ZPRC telecom analytics project from SAP HANA to Hive using PySpark, optimizing performance and reducing costs for a pipeline processing 1M+ records daily from 100+ source tables.
- Designed and implemented scalable ETL pipelines using Azure Data Factory and Databricks for full and incremental loads, facilitating data ingestion between various RDBMS and ADLS.
- Migrated and validated billions of records using Informatica and PySpark, including reconciliation logic and integration with Kafka for real-time ingestion.
- Translated and developed complex stored procedures and views across SAP HANA and Oracle, and created 10+ Tableau-ready data sources for reporting and analytics teams.
- Managed production deployments, data updates, and change requests across HANA and Oracle environments, ensuring reliability and stability of data systems.

Clerisy Solutions Pvt. Ltd.

Mohali, Punjab

Full Stack Developer

Feb 2023 – Dec 2023

- Improved and maintained backend features for the Stayntouch IBE hospitality platform, including authentication and booking logic using LoopBack, Angular, and PostgreSQL.
- Developed data-driven dashboards and implemented complex business logic for the Capexpert project, including file-based data processing and inventory management workflows.
- Optimized database performance by creating indexes and refining queries in PostgreSQL, ensuring scalable and efficient data operations.
- Applied backend development best practices that laid a strong foundation for transition into data engineering.

PROJECTS

Military Insights [[Github Link](#)]:

Engineered an end-to-end data pipeline to analyze and visualize military related events using public datasets (ACLED, SATP, The Hindu). Built scalable ETL workflows in PySpark on Databricks with automated scheduling via GitHub Actions. Ingested and enriched geospatial data into Supabase (PostGIS) for downstream consumption. Designed FastAPI services and a React + Mapbox frontend for dynamic threat mapping and state-level drilldowns.

SKILLS

Languages & Scripting: Python, SQL, TypeScript

Data Engineering: PySpark, Azure Data Factory, Databricks, Kafka, Informatica, Airflow

Databases & Tools: Oracle, SAP HANA, PostgreSQL, ADLS, Git, Angular, NestJS, Loopback