

PAWAN KUMAR SINGH

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Location – Gurugram (India)

Work Experience

HCL Technologies (HCLTech Lucknow) **Role – Senior Data Engineer** **May 2025 to present**

- Designed and engineered highly scalable **ETL/ELT pipelines** using **Azure Data Factory, Azure Synapse, and Databricks (PySpark)** to ingest and process **2+ TB** of daily data from diverse enterprise sources into **Azure Data Lake / OneLake**.
- Built and optimized **Synapse and Fabric Lakehouse** data models, improving query performance by **40%** through partitioning, indexing, and Delta Lake optimizations.
- Implemented a robust Delta Lake architecture with **schema enforcement** and **ACID transactions**, increasing data reliability and reducing load failures by **30%**.
- Developed interactive **Power BI dashboards** and **semantic models** with **advanced DAX** to support executive-level reporting, significantly accelerating data-driven decision-making.

Ummeed Housing Finance (Gurugram) **Role – Data Engineer** **June 2023 to May 2025**

- Developed and maintained scalable **ETL pipelines** using **Python, PySpark** and **SQL**, improving data processing speed by **30%**.
- Designed and implemented data models and SQL queries to support **data warehousing** solutions for cross-functional analytics.
- Built data validation scripts in Python and SQL to monitor **data quality**, leading to a **95%** reduction in downstream errors.
- Automated data ingestion and transformation processes using Python scripts and scheduled SQL jobs, reducing manual work by **50%**.

Zhudao Infotech Pvt Ltd (Gurugram) **Role – Senior Fraud Analyst** **December 2022 to May 2023**

- Analyzed transaction data using **SQL** and **Python** to detect anomalies and patterns indicative of fraudulent behavior in customers' accounts.
- Built rule-based and statistical models in Python to flag suspicious activity, reducing false positives in fraud detection around **50%**.
- Developed dynamic Excel dashboards and reports to track fraud metrics and visualize trends for internal audit teams.

Paytm Payments Bank Limited (Noida) **Role – Fraud Analyst** **August 2020 to November 2022**

- Extracted, transformed and analyzed data to check customers' transactions trend to detect anomalies related to fraud transactions in customers' account.
- Used multiple panels to block / unblock, debit and credit freeze / unfreeze, and blacklist customers' accounts to prevent frauds.

Airtel Payments Bank Limited (Gurugram) **Role – AML Analyst** **November 2019 to July 2020**

- Engineered high-performance SQL logic using **CTEs, subqueries, and window functions** to drive advanced analytics.
- Analyzed customer transactions with **SQL** identifying AML patterns, creating **dashboards and KPI reports** reducing suspicious activity by **20%**.

Technical Skills

- Microsoft Fabric** –Lakehouse | Warehouse | Shortcuts | Mirroring | Dataflows Gen2 | Notebooks | OneLake | Semantic Models.
- MS Azure** – Azure Data Factory | Azure Databricks | Azure Synapse Analytics | Azure SQL | Data Migration | Data Warehousing.
- Databricks** – Spark SQL | Spark Data frame | Delta Live Table | Unity Catalogue | Big Data Processing | Lakehouse Architecture.
- Python** – Pandas | NumPy | Data Transformation | Data Pipelines | Automation | Data Sharing | Auto Mailer.
- SQL** – Advanced Queries | Windows Functions | Query Optimization | Views | Stored Procedures | Index.

Education

- Graduation (BA English) - from DRML Avadh University Faizabad (2012).

Certifications

- DP-700 Microsoft Certified – Fabric Data Engineer Associate (Nov-2025).
- Databricks Generative AI Fundamentals (Nov-2025).
- Google Data Analytics Professional Certificate by Coursera (completed in 2023).