

Abhisek Kumar

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Professional Profile

Software Engineering Master's student seeking an opportunity to get hands-on learning during studies with 2+ years of professional experience in designing and deploying end-to-end cloud-based data solutions across e-commerce, financial, and analytics domains. Skilled in Azure Data Factory, Databricks, Synapse, PySpark, SQL, and Python. Experienced in Power BI dashboards for business intelligence, Python automation for APIs, reporting, and pipelines, and Agile team collaboration with CI/CD best practices and Kanban/Scrum teams using Jira and Confluence.

Skills

Data Engineering: Azure Data Factory, Azure Synapse, Azure Databricks, Azure Functions, Logic Apps, Apache Airflow

Big Data & Streaming: PySpark, Spark SQL, Kafka, Hadoop, Delta Lake

Languages: Python, SQL, C++, Pandas, Numpy, Scikit-learn

Databases: Azure Data Lake Storage, MS SQL, MySQL, IBM DB2, PostgreSQL, BigQuery

Tools: MS PowerBI, Github, Excel, PowerPoint

Projects Methodologies: Agile, CI/CD, Jira

Work History

Software Engineer

Mphasis Ltd, Bengaluru

08/2021 – 02/2024

- Designed and maintained end-to-end ETL pipelines using Azure Synapse Analytics, Snowflake, and Apache Kafka, increasing operational efficiency by 35% and reducing processing time by 30%.
- Optimized data workflows with Azure Data Factory, Databricks, and Delta Lake, improving data transfer reliability by 90% and enhancing query performance by 18%.
- Engineered advanced SQL transformations and leveraged Python for data wrangling and exploratory data analysis (EDA), enabling faster insight generation.
- Built and deployed dynamic dashboards in Power BI and Tableau, utilizing DAX, SQL, and visualization best practices to enhance business intelligence and support data-driven decisions.
- Managed and queried large-scale datasets (50TB+) using HDFS, Oracle, and Databricks, achieving a 45% improvement in reporting performance and scalability.
- Implemented Azure Monitor and Application Insights for real-time system performance tracking, reducing downtime, and accelerating error resolution.

Education

Master of Science (Research in Computer and Systems Engineering)

Technische Universität Ilmenau

10/2024 - Present

Subjects – Software Safety, Research Skills, Software and Systems Engineering, Advanced Database Systems, Algorithms

Erasmus Exchange (Computer Science)

Norwegian University of Science & Technology (NTNU)

01/2026 - 06/2026

Subjects - Software Architecture, Recommender Systems, Programming and Numerics, Cooperation Technology and Social Media

Post Graduate Diploma (Data Science)

Indraprastha Institute of Information Technology (IIITD)

10/2023 - 08/2024

Subjects – Data Visualization, Inferential Statistics, Intersectionality, Modelling and Basic Machine Learning

Bachelor of Science (Computer Science and Engineering)

Technocrats Institute of Technology Excellence

07/2017 - 07/2021

Subjects – Data Structure, Object Oriented Programming and Methodology, Operating Systems, Database Management Systems, Big Data, Cloud Computer, Image Processing and Computer Vision

Projects

Connected Vehicle Data Platform

Designed an enterprise-scale lakehouse platform for connected-vehicle telemetry, supporting batch/streaming ingestion, data quality, governance, and analytics. Implemented a roadmap covering Bronze/Silver/Gold layers, real-time fleet monitoring, predictive maintenance, CI/CD, and ML readiness.

EV Battery and Charging Intelligence Platform

An end-to-end data engineering portfolio project for connected electric vehicle telemetry. The platform uses a medallion architecture to turn raw battery and charging events into analytics-ready data products for battery health, charging behavior, warranty risk, and fleet operations.

Languages

- German: Intermediate
- English: Native