

Parbat Singh Rajpurohit

Data Engineer

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SUMMARY

Results-oriented Data Engineer & Analyst with a Master's degree in Automotive Software Engineering from TU Chemnitz. Proficient in SQL, Python, Apache Spark, and Databricks, with a strong foundation in data modeling, ETL pipelines, and cloud-based data solutions. Demonstrated success in automotive data environments, including containerized microservices (Docker) and real-time data processing. Experienced in developing high-performance, scalable data systems and delivering business insights through Power BI and Tableau.

EXPERIENCE

Database Developer

Kemmer Hartmetallwerkzeuge GmbH (Working Student)

📅 Feb 2025 – Present

📍 Zella-Mehlis, Germany

- Developed a product comparison database for competitor analysis and pricing insights
- Used MySQL (backend) and MS Access (frontend) for efficient data management
- Ensured DIN & ISO compliance, standardizing product data
- Optimized database performance for faster retrieval and analysis

Integration of a Data Storage Solution for Evolving Algorithm Metrics into a Data Evaluation Platform

Continental AG (Master Thesis)

📅 May 2024 – Nov 2024

📍 Ingolstadt, Germany

- Optimizing large-scale ECU datasets using Apache Spark and Delta Lake for efficient Parquet file processing
- Evaluating storage solutions for managing high-volume sensor and algorithmic data
- Developed containerized data workflows using Docker and Docker Stack Code
- Implemented FastAPI for efficient data transfer and retrieval between systems
- Automated real-time data analysis with Python, and stored table metadata in PostgreSQL using Hive Metastore

Efficient Data Management in Automotive Actuator Control

Continental AG, (Research Intern)

📅 Sept 2023 – Mar 2024

📍 Ingolstadt, Germany

- Evaluated PostgreSQL and Delta Lake for efficient storage of sensor and ECU data
- Optimized data management strategies to enhance scalability and accessibility
- Deployed containerized data applications using Docker

Data Analyst

Bhakti Vedanta Hospital and Research Institute

📅 Jun 2019 – Dec 2019


📍 Mumbai, India


- Created Power BI dashboards to provide insights into hospital operations
- Optimized SQL databases for improved data retrieval and reporting
- Integrated data into workflows using Google Apps to enhance business intelligence
- Analyzed patient data in Apex Hospital Management System to support decision-making

EDUCATION

Master of Science - Automotive Software Engineering

Technische Universität Chemnitz


 Oct 2023 – Mar 2025


 Chemnitz, Germany

Relevant Course Work: Automotive software Engineering, Advanced Platform for Automotive Systems, Advanced Management of Data, Image Understanding, Software Service Engineering

Bachelors of Engineering - Electronics and Telecommunication

St. Francis Institute of Technology

 Jun 2017 – Mar 2021

 Mumbai, India

Relevant Course Work: Computer Networks and Network Security, Database Management Systems (SQL), Java (OOPS), C++

SKILLS

- **Programming Languages:** Python, C++, SQL, NoSQL, VBA
- **Frameworks & Big Data Technologies:** Apache Spark, Apache Hadoop, Apache Hive, PySpark, Databricks
- **Database Management & Data Warehousing:** PostgreSQL, MS SQL Server, NoSQL, SQL Database Management, Data Warehousing, ETL
- **Data Visualization & Business Intelligence:** Power BI, Tableau, Business Intelligence, Data Visualization
- **Libraries & Tools:** Pandas, NumPy, Google Sheets, MS Office, MS Access
- **Cloud & Containerization:** Docker

CERTIFICATIONS

- Databricks
- Python basics - Coursera
- Diagrams and Dashboard with Google Sheets - Coursera
- Introduction to Data Analysis with Microsoft Excel - Coursera
- Power BI Virtual Case Study (PwC)
- Virtual technology experience program (Deloitte)

LANGUAGES

ENGLISH Fluent	<div><div></div><div></div><div></div><div></div><div></div></div>
GERMAN Intermediate	<div><div></div><div></div><div></div><div></div><div></div></div>
HINDI Fluent	<div><div></div><div></div><div></div><div></div><div></div></div>

HOBBIES

- Cooking
- Listening Music
- Gaming
- Travelling