



Darpen Bhandari

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My Portfolio

Professional Experience

Student Assistant - Data and System Analytics

Universitätsklinikum Heidelberg

12/2025 – Present | Heidelberg, Germany

- Built ETL/ELT workflows and dashboarding solutions for operational application data using Python, SQL, Azure Data Factory, Azure Storage and Power BI, improving reporting visibility across IT services and supporting a 15% reduction in manual reporting effort while giving stakeholders a clearer view of incidents and service usage.
- Designed incident analytics dashboards to track open vs resolved cases, recurring service issues and application demand trends, helping teams improve follow up on support requests and contributing to better SLA monitoring and reduction in breach prone cases during ongoing service integration work.

Senior Software Engineer

Hexaware Technologies Pvt Ltd.

03/2019 – 10/2023 | Navi Mumbai, India

- Led data delivery for 22 financial applications for Jennison Associates by building automated ETL pipelines using Azure Data Factory, Azure Storage and Data Lake with built in data validation checks and CI/CD support, which improved data accessibility, reduced manual effort by 10% and created a more reliable flow of reporting data into Power BI.
- Designed and maintained scalable data pipelines, transformation logic and reporting layers for financial application data, standardising ingestion from source systems into Azure based storage and Data Lake and improving dashboard delivery which increased business visibility and supported a 5% uplift in revenue driven decision outcomes across US operations.

Projects

Master's Thesis – Smart Electricity and Energy Optimizer Usage

SRH Hochschule Heidelberg, Heidelberg Germany

04/2025 – 09/2025

- Built an end to end data pipeline using Python, SQL, Spark and Power BI to integrate electricity and solar consumption data, enabling scalable analytics, forecasting and cost optimization.
- Designed reusable transformation and feature preparation workflows to improve data quality, support reliable forecasting outputs and deliver decision ready insights through interactive reporting.

Case Study – Monitoring and Predicting Lake Levels and Quality

E.ray GmbH, Darmstadt Germany

03/2024 – 09/2024

- Worked with scalable data pipelines using Python, SQL and Spark to combine environmental and meteorological datasets for KPI generation, trend monitoring and predictive analysis.
- Developed reusable analytics workflows and dashboards to improve reporting consistency, support data quality checks and enable clearer interpretation of lake level and water-quality patterns.

Summary

Data Engineer with 4.9 years of experience building scalable ETL/ELT pipelines, integrating complex application data and delivering reliable data solutions for analytics and decision making. Skilled in Python, SQL, Spark, dbt, Kafka, Databricks and CI/CD with a strong focus on data quality, workflow automation, maintainable engineering practices and stakeholder collaboration across cross functional teams.

Skills

- **Data Engineering:** ETL/ELT Pipelines, Data Pipelines, Data Integration, Data Validation, Data Quality, Data Governance, Data Warehousing, Workflow Automation, CI/CD Pipelines, Data Modeling
- **Programming:** Python, SQL, Pandas, NumPy, PySpark
- **Modern Data Stack:** Spark, dbt, Kafka, Databricks, Snowflake
- **Cloud & Storage:** Microsoft Azure, Azure Data Factory, Azure SQL, Azure Storage, Data Lake
- **BI & Analytics:** Power BI, Tableau, DAX, Power Query, KPI Reporting, Dashboarding
- **Tools & Practices:** Git, Jira, Design Patterns, Maintainable Code, Technical Collaboration

Education

Master's In Applied Data Science and Analytics

SRH Hochschule Heidelberg

10/2023 – 09/2025 | Heidelberg, Germany

Focus Areas: Data Engineering, Machine Learning, Predictive Analytics, Business Intelligence

Bachelor's of Science in Information and Technology

KES Shroff College

07/2015 – 04/2018 | Mumbai, India

Focus Areas: Programming, Databases, Information Systems, Software Development

Languages

- English - Fluent
- German - Intermediate

Certificates

- Microsoft Azure Fundamentals AZ-900
- Fundamentals of Deep Learning- Nvidia
- SAS Certified Specialist: Visual Business Analytics