

NIMISH MATHUR

Master's Student — Applied Data Science and Analytics

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Profile

Analytical and results-driven **Data Science & Engineering professional** pursuing an M.Sc. in **Applied Data Science and Analytics** at SRH Hochschule Heidelberg. Hands-on experience in **AI automation, data pipelines, machine learning, and business analytics** — bridging the gap between **data infrastructure** and **actionable insights**. Skilled in transforming raw data into production-ready systems and scalable dashboards deployed across **GCP, AWS, and Streamlit**.

Core strengths: **Data Science (ML, NLP, CV, Graph AI), Data Engineering (ETL, Airflow, BigQuery, PostgreSQL), Data Analytics (Power BI, Tableau, SAP Analytics Cloud), AI Automation (LangChain, APIs, CI/CD)**.

Experience

CRISIL Limited Dec 2023 – Jun 2024

Database Administrator Intern Mumbai, India

- Automated **KPI and compliance reports** using **Python (Pandas, SQLAlchemy)**, improving reporting efficiency by **40%**.
- Developed and optimized **ETL pipelines** and **SQL queries** for audit, compliance, and KPI data — increasing query performance by **30%**.
- Created **Power BI dashboards** and reusable **data validation scripts** for cross-departmental business intelligence.
- Documented workflows and supported **database migration projects**, ensuring **zero downtime** and strong QA alignment.

Projects

AI-Agentic Framework for Algae Management Mar 2025 – Aug 2025

Multi-Agent AI System

- Developed multi-agent AI architecture (**HOMOGEN, CALIBRO, VISIOS, PREDIKT**) integrating **satellite, climate, and water data** for HAB prediction.
- Implemented **Transformer-based fusion, data consistency pipelines**, and **LangChain-powered reasoning agents**.

Graph-based Knowledge Representation Feb 2024 – Ongoing

Knowledge Graph + RAG Integration

- Built **GNN prototypes (PyTorch Geometric)** and integrated **RDF/Neo4j** into a **Retrieval-Augmented Generation (RAG)** pipeline.

LungDetect May 2023 – Dec 2023

Deep Learning Model for Pneumonia Detection

- Developed **DenseNet121 CNN** with **Grad-CAM explainability (95% accuracy)** for pneumonia detection.
- Collaborated with clinicians for validation and built a preprocessing pipeline using **Python & SQL**.

Hush Hush Recruiter Nov 2024 – Mar 2025

Candidate Screening Automation

- Automated screening of **10k+ candidate profiles** using **Power BI** and **Python** — reducing manual effort by **98%**.
- Implemented **QA validation scripts** to ensure reliability and performance.

TruHealth — Mental Health Analysis Website Sep 2023 – Nov 2023

NLP Model + Dashboard

- Built predictive **NLP model (85% accuracy)** using sentiment and topic analysis on mental-health forums.
- Deployed Flask backend integrated with MongoDB and Power BI dashboards.

Pacific Progress Pulse Jun 2025 – Jul 2025

Tableau Climate Dashboard

- Developed **interactive Tableau dashboard** visualizing climate, sustainability, and disaster resilience KPIs across Pacific nations.

Education

SRH Hochschule Heidelberg 2024 – 2026

M.Sc. Applied Data Science and Analytics (enrolled) Germany

Symbiosis Institute of Technology 2020 – 2024

B.Tech in Information Technology Pune, India

FH St. Pölten — University of Applied Sciences May 2025 – Jun 2025

Blended Intensive Program, Computer Science Austria

Skills

Programming & ML: Python (NumPy, Pandas, Scikit-learn, PyTorch, PyTorch Geometric, TensorFlow), SQL, JavaScript, TypeScript

Data Engineering: Apache Airflow, BigQuery, PostgreSQL, MySQL, MongoDB, Docker, APIs, ETL Pipelines

Cloud & DevOps: GCP, AWS (S3, Lambda), Git, CI/CD, Docker

Analytics & Visualization: Power BI, Tableau, SAP Analytics Cloud, Excel (Power Query, PivotTables)

AI Automation: LangChain, Streamlit, REST APIs, Agentic AI Frameworks

QA & Testing: Playwright, Cypress, Jest, Technical Documentation, Agile Practices

Concepts: Data Modeling, Data Warehousing, MLOps, Explainable AI, Model Deployment, A/B Testing

Languages: English (C1), German (A2)

Certifications

- **IBM Data Science Professional Certificate** (Coursera) — 2023
- **Machine Learning with Python** (Coursera) — 2023
- **Generative AI Masterclass** (Udemy) — 2024
- **Google Cloud Big Data & ML Fundamentals** (Coursera) — 2024
- **Exploring SAP Analytics Cloud** (SAP Learning) — 2024
- **Microsoft Power BI Desktop – Dashboards & Data Analytics** (Udemy) — 2024