

SAIYUDH MANNAN

2.0+ years' experience as Junior Data Engineer automating ETL pipelines and building cloud-native data solutions **AWS, Teradata, Kubernetes**. Achieved up to **10% faster deployments** via CI/CD automation and data quality improvements. Passionate about **Data Science, AI and cloud technologies**; fluent in English and actively advancing **German B2** to deliver scalable, high-impact solutions in international teams.

saiyudh.com

[in saiyudh-mannan](https://www.linkedin.com/in/saiyudh-mannan/)

[saiyudh-mannan](https://www.github.com/saiyudh-mannan)

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Magdeburg, Deutschland

EDUCATION

B2 German Professional Language Course & Integration Course

Municipal Adult Education Center Magdeburg (Germany)

Nov 2024 – Dec 2025

Deutsch (B1 – Zertifikat)

Focus: B2 Professional German course and integration course (B1 German completed).

MSc. in Data and Knowledge Engineering - Final Grade: 2.7

Otto-von-Guericke-Universität, Magdeburg (Germany)

Apr 2019 – Jan 2025

Focus: Development of an **AngularJS (TypeScript)** application to visualize metabolic data with **hierarchical network diagrams**. Demonstrated expertise in processing **biomedical data and clinical data visualization** [link](#).

BSc. in Computer Science and Engineering - Percentage: 80.47%

North South University, Dhaka (Bangladesh)

Sept 2013 – Feb 2018

WORK EXPERIENCE

Junior Data Engineer

Adastral GmbH

March 2023 – Sept 2024

Magdeburg, Germany

- Automated and optimized over **15+ ETL pipelines** (Teradata, AWS) for pre/post-processing and transformation of high-volume datasets.
- Designed and maintained **AWS cloud stack** (CloudFormation, Terraform, S3, Lambda, Glue) with proactive monitoring via **CloudWatch**.
- Built CI/CD pipelines and scheduling workflows using **BMC Control-M / SLIM / Jira** to cut deployment time by **10%** and reduced manual interventions.

Working Student Data Engineer

Adastral GmbH

May 2022 – Feb 2023

Magdeburg, Germany

- Managed **2+ Kubernetes** clusters (IONOS & AWS) and CI/CD environments to support scalable deployments with Python, Cloud.

CURRENT PROJECTS

Automated DevOps Recipe Platform (1M+ Users)

Built with **Terraform, AWS ECS/ECR/RDS, S3, VPC, ACM, ALB**. Automated deployment—zero-downtime upgrades with GitHub Actions. [link](#)

Housing Price Prediction MLOPs System

Designed XGBoost regression with **Optuna, AWS ECS/Docker/CI**. Deployed real-world ML with FastAPI and robust temporal features. [link](#)

Patient Flow Analytics for Hospitals

Azure Data Factory, Databricks, Kafka, Synapse, Power BI. Real-time dashboards via Medallion and Star Schema architectures. [link](#)

Stock Market Data Pipeline

Kafka, Airflow, Snowflake, DBT, Power BI. Real-time analytics and visual reporting platform. [link](#)

Collaborative AI Agent Systems

Developed multi-agent trading and automation (**CrewAI, Docker, LangGraph**) for production scenarios. [link](#)

TECHNICAL SKILLS

Programming & Data:

- Python, SQL, JavaScript, BigQuery
- ABAP, Git/GitHub, GitHub Actions
- LangChain, CrewAI, PyTorch, TensorFlow, Hugging Face

Cloud, DevOps & Automation:

- AWS, Azure, Docker, Kubernetes
- Terraform (IaC), Jenkins, n8n, MCP

Visualization & Collaboration:

- Power BI, Tableau, Excel/Google Sheets
- Agile, Jira, Confluence

FURTHER TRAINING

SAP BW/S4HANA and ABAP

TH Brandenburg, ERP4STUDENTS

Nov 2024 – Mar 2025

LANGUAGES

English (Fluent)

German (B2, in progress)



CERTIFICATES

Deutsch (B1 – Zertifikat)

AWS CLF-C02

SAP ABAP

SAP BW/4HANA: Data Modeling & BusinessObjects Lumira

SAP BW/4HANA – Data Flow & BusinessObjects Reporting

Google Data Analytics

STRENGTHS

Analytical Problem-Solving

Cloud-Native Data Solutions

Cross-Functional Collaboration

Adaptability & Fast Learning

Time Management

Saiyudh Mannan, November 22, 2025