





# 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.

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## 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 Adastra 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 / SLJM / Jira** to cut deployment time by **10%** and reduced manual interventions.

### Working Student Data Engineer Adastra 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

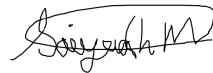
English (Fluent)   
German (B2, in progress) 

## 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