

SAIYUDH MANNAN

AI Cloud Engineer

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SUMMARY

ML/Data Engineer (M.Sc.) with 2+ years building production data pipelines, deploying ML workflows, and provisioning cloud infrastructure for AI systems. Experienced in Python, SQL, Docker, AWS, Azure, Terraform, GitHub Actions, Jenkins, and Kubernetes for provisioning infrastructure, automating deployments, and monitoring production data systems. At CompanyX I bring experience in Python based workflows, CI/CD, and explainable AI projects to support reliable AI enabled cloud systems and transparent model behaviour.

WORK EXPERIENCE

Data Engineer

March 2023 - September 2024

Adastra GmbH, Magdeburg, Germany

- Architected 5+ CI/CD ETL pipelines on Teradata and AWS, boosting data throughput and earlier report refreshes.
- Translated complex stakeholder reporting goals into production data workflows, cutting manual analyst corrections by about 15%.
- Engineered Python and AngularJS applications integrating REST APIs and NoSQL/RDBMS stores, reducing data access incidents by 25%.
- Optimized AWS Lambda transformations, reducing key pipeline execution time from 10 to 7 minutes.
- Provisioned AWS infrastructure with Terraform and CloudFormation, shortening new environment setup and accelerating PoC delivery.
- Configured CI/CD for ETL and services using Jenkins and GitHub Actions, increasing release frequency without reducing uptime.
- Tuned CloudWatch and BMC Control-M monitoring, cutting unplanned pipeline downtime by 10-15% and stabilizing SLAs.

Junior Data Engineer (Part-time)

May 2022 - February 2023

Adastra GmbH, Magdeburg, Germany

- Managed Kubernetes cluster deployments on AWS and IONOS Cloud, reducing infrastructure related errors by almost 25%.

EDUCATION

Data Science & AI Bootcamp

January 2026 - April 2026

Le Wagon, Berlin, Germany

- Delivered 3+ Python and SQL analytics projects with automated workflows, cutting manual analysis time by 25%.
- Applied regression and hypothesis testing on 4 datasets, generating 10+ actionable insights for presentations.
- Trained 6+ ML models using Scikit-learn and XGBoost with feature engineering, increasing baselines by up to 15%.
- Prototyped neural nets, CNNs, LSTMs, transformers, LLMs, RAG systems, agents, GANs, and RL experiments.
- Deployed Docker and FastAPI AI services on cloud platforms, reducing team deployment effort by 30%.

German Integration Course (DTZ, A1-B1) and B2 Professional Language Course

January 2025 - December 2025

Städtische Volkshochschule, Magdeburg, Germany

M.Sc. Data and Knowledge Engineering

April 2019 - January 2025

Otto Von Guericke University, Magdeburg, Germany

- Developed Angular plugin with hierarchical graphs and Dijkstra pathfinding, improving metabolic pathway query performance by 20%.
- Executed ML and NLP experiments on the Gutenberg corpus using BERT in TensorFlow, boosting long document classification accuracy.

KEY SKILLS

Programming:

Python SQL JavaScript TypeScript Java
Bash

Cloud:

AWS Azure Docker Kubernetes Terraform
Databricks

LLM & AI:

PyTorch TensorFlow Scikit-learn XGBoost
LangChain MLFlow

Viz: PowerBI Tableau Lumira

Languages:

German (B2) English (Advanced)
Bengali (Native)

PROJECTS

Explainable Skin Lesion Platform

[GitHub](#)

- Developed PyTorch based skin lesion classifiers with Grad CAM style visualisation, evaluating explanations across 5+ image classes.
- Analysed XAI attribution maps for 1,000+ samples, validating model focus on clinically relevant lesion regions.

Housing ML End to End

[GitHub](#)

- Created AWS hosted XGBoost regression pipeline for housing prices, achieving under 5% RMSE on test data.
- Containerized training and inference with Docker and CI/CD, cutting experiment setup time by about 30%.

DevOps Recipe Manager Platform

[GitHub](#)

- Implemented GitHub Actions CI/CD across 3 environments, achieving zero downtime for 20+ deployments.
- Defined AWS infrastructure with Terraform for recipe services, reducing new environment provisioning time by 40%.

CERTIFICATES

[AWS CLF-C02](#)

[Google, Data Analytics](#)

[LLM & AI Agents Engineering](#)

[Docker, Kubernetes & AWS](#)