

MOHAMMAD TANZIL ALAM

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🌐 Tanzil's LinkedIn 🤖 AI-Powered CV Assistant: TanzilGPT_Chatbot



Data Engineer with 4+ years of experience in building cloud-native data platforms, distributed ETL pipelines, and analytics-ready data assets. AWS Certified with strong expertise in Python, NLP, and Terraform. Hands-on in designing AI-powered applications using Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), semantic embeddings, and vector databases (FAISS). Proven ability to integrate unstructured data, optimize query performance, and deliver interactive AI-driven solutions that accelerate digital transformation.

TECHNICAL SKILLS:

Core Data & Cloud Engineering: AWS (Certified), PySpark, ETL & Data Pipelines, Data Warehousing; Python, SQL; Large Language Models (LLMs), RAG Pipelines, Semantic Search, FAISS
DevOps & AI Application Tools: Docker, Terraform, GitLab, GitHub, REST APIs, Azure DevOps, Streamlit, Linux; Prompt Engineering, Interactive AI Applications, Cloud AI Workflows

SOFT SKILLS:

Critical Thinking • Problem-Solving •
Communication & Collaboration •
Attention to Detail • Time Management •
Teamwork

WORK EXPERIENCE

June 2025 – Present
Frankfurt, Germany

Arcondis GmbH, Associate Consultant Data Engineer

- **Automated KPI Pipeline:** Integrated Monday.com (REST API) & Abacus (JDBC) data into a unified KPI system, eliminating manual computation.
- **Database Scanning Automation:** Isolated relevant tables from large-scale Abacus databases, reducing lookup time to 3–4 minutes.
- **Real-Time Reporting:** Delivered fully automated KPI reports with scheduled refresh, enabling near real-time stakeholder visibility.
- **Stakeholder Collaboration:** Partnered with business teams to refine requirements and provide weekly updates, improving alignment.

January 2024 – May 2025
Germany, India

Self Employed, Online Tutor

- **Training Program Design:** Created structured programs in data engineering, cloud, and DevOps for bachelor's & master's students.
- **Hands-On Mentorship:** Led pair programming sessions and live project mentoring, strengthening applied technical skills.
- **Reusable Resources:** Developed presentations, code templates, and examples to ensure reproducible learning outcomes.

June 2022 – July 2023
Penzberg, Germany

Roche Diagnostics GmbH, Data Engineer

- **Data Ingestion & Lakehouse:** Built scalable ETL pipelines with AWS Glue, S3, Athena, and PySpark, consolidating large datasets.
- **Clinical Data Processing:** Built Python ETL to process OCR/PDF/free-text pathology datasets, enabling data drift detection.
- **NLP & Text Mining:** Applied NLP to structure unstructured medical records, unlocking new analytics use cases.
- **Semantic Search & Compliance:** Improved Word2Vec-based semantic search and cosine similarity analysis for report variance detection.

- Query Optimization: Reduced Athena query execution time for both ad-hoc and large-scale analytics workloads.
- Deployment & Monitoring: Automated deployments with Git, Docker, and AWS; configured CloudWatch to boost uptime.

June 2019 – May 2021
Kolkata, India

Fortress6 Technologies, Software Engineer

- SQL Optimization: Reduced data retrieval time by 60% through advanced query tuning.
- Infrastructure Automation: Automated AWS microservice deployments for 13+ ISPs using Terraform (IaC).
- CI/CD Enablement: Set up CI/CD pipelines with Git for 60+ clients, improving delivery consistency & speed.
- Mentorship: Guided 5 junior developers, raising code quality and adherence to best practices.

EDUCATION

September 2021 –
August 2023
Bremen, Germany

Jacobs (Constructor) University, MSc. Data Engineering

August 2015 – May 2019
India

Uttarakhand Technical University, B.Tech Computer Science & Engineering

AWARDS/ CERTIFICATIONS

- AWS Certified – Cloud Computing & Deployment
- Microsoft Technology Associate – Top 5% in MySQL
- Academic Merit 100% Scholarship – Jacobs University

LANGUAGE

English: Fluent

Hindi: Native

German: B1+