

# MOHAMMAD TANZIL ALAM

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Data Engineer with 4 years of experience designing automated ETL pipelines, cloud-native solutions, and large-scale data platforms. AWS Certified with expertise in PySpark, SQL, and distributed systems. Proven track record in reducing manual reporting overhead, optimizing query performance, and improving data quality for analytics and AI initiatives. Skilled in transforming unstructured datasets into production-ready data assets.

## TECHNICAL SKILLS:

**Cloud & Big Data:** AWS (Certified) - EC2, S3, Redshift, RDS, Route 53, VPC, CloudWatch, Athena, Glue, Azure DevOps, PySpark  
**Languages & Databases:** Python, SQL, Java, R  
**DevOps & CI/CD Tools:** REST API, GitLab, GitHub, Terraform, Docker  
**OS & Data Visualization:** Linux, Power BI, Streamlit  
**Project Management:** JIRA, Trello, Agile Methodologies

## 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

### **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+