MOHAMMAD TANZIL ALAM

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🔗 My Portfolio   ⟳ TanzilGPT_Chatbot

I am eager to apply for a Data Engineer role where I can turn complex datasets into actionable insights and support evidence-based decision-making. At Roche Diagnostics and Arcondis, I built Python pipelines to structure unstructured data, implemented ML-driven anomaly detection, and deployed AWS cloud solutions to automate large-scale data processing. These experiences honed my ability to translate business needs into analytical solutions, maintain data integrity, and optimize performance with advanced SQL and automated reporting. To further strengthen my expertise, I earned AWS and Microsoft SQL certifications, expanding my skills in responsible GenAI, scalable processes, and data-informed strategy. I continue to deepen my fluency in LLM, pipeline optimization, and backend systems, and am open to relocation to contribute to impactful decision-making.

TECHNICAL SKILLS:

Cloud & Big Data: AWS (Certified) - EC2, S3, Redshift, RDS, Route 53, VPC, CloudWatch, Athena, Glue, Azure DevOps, PySpark
Languages, ML & Databases: Python, Java, R, PyTorch, scikit-learn, SQL
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

06/2025 – 08/2025
Frankfurt, Germany

Arcondis GmbH, *Associate Consultant Data Engineer*
- Integrated Monday.com (REST API) & Abacus (JDBC) data into a unified KPI system, eliminating manual computation.
- Isolated relevant tables from large-scale Abacus databases, reducing lookup time to 3–4 minutes.
- Delivered fully automated KPI reports with scheduled refresh, enabling near real-time stakeholder visibility.
- Partnered with business teams to refine requirements and provide weekly updates, improving alignment.

01/2024 – 05/2025
Germany, India

Online Tutor
- Created structured programs in data engineering, cloud, and DevOps for bachelor's & master's students.
- Led pair programming sessions and live project mentoring, strengthening applied technical skills.
- Developed presentations, code templates, and examples to ensure reproducible learning outcomes.

06/2022 – 07/2023
Penzberg, Germany

Roche Diagnostics GmbH, *Data Engineer*
- Built an end-to-end AWS cloud ETL pipeline (S3, PySpark, Glue, Athena) that transformed unstructured oncology reports into queryable Parquet datasets, accelerating clinical data analysis by 40%.
- Increased system uptime from 48% to 87% by implementing CloudWatch monitoring and IAM-based access control.
- Delivered the pipeline 3 weeks ahead of schedule with full documentation, Git versioning, and reproducible workflows.
- Automated data drift detection by applying TF-IDF, Word2Vec, and cosine similarity, cutting detection time by 60% and improving model reliability.
- Enhanced OCR report accuracy through NLP preprocessing (NLTK, RegEx), ensuring clean, standardized inputs for downstream analysis.

- Visualized drift patterns using Seaborn boxplots, providing clear insights for stakeholders.
- Created and delivered executive-level presentations explaining complex pipelines in simple terms, earning positive feedback from non-technical stakeholders.

06/2019 – 05/2021
Kolkata, India

Fortress6 Technologies, *Software Engineer*
- Reduced data retrieval time by 60% through advanced query tuning.
- Automated AWS microservice deployments for 13+ ISPs using Terraform (IaC).
- Set up CI/CD pipelines with Git for 60+ clients, improving delivery consistency & speed.
- Guided 5 junior developers, raising code quality and adherence to best practices.

EDUCATION

09/2021 – 08/2023
Bremen, Germany

Jacobs (Constructor) University, *MSc. Data Engineering*

08/2015 – 05/2019
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+