

Mohammad Tanzil Alam

📍 Alter Winterweg 9, 28237 Bremen, Germany 📞 +49 176 745 60350 ✉️ mohammadtanzilalam@gmail.com

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WORK EXPERIENCE

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| 01/2023 – 07/2023
Penzberg, Germany | Data Engineer, Roche Diagnostics GmbH <ul style="list-style-type: none">• Data Analysis of TB (terabytes) of Text and OCR surgical pathology data.• Develop Python-based ETL pipeline for data science tasks: modelling, ML (Machine Learning).• Implemented advanced NLP techniques and machine learning models for real-time data drift detection.• Model performs 99.5% accuracy, resulting increase in processing speed by a factor of 2.• Automated workflow in the production environment, saving time and cost. |
| 05/2022 – 07/2022
Penzberg, Germany | Data Engineer Apprentice, Roche Diagnostics GmbH <ul style="list-style-type: none">• Established an AWS cloud data pipeline for JSON oncology reports in digital healthcare.• Employed ETL using AWS services such as: S3, Glue, Athena, Redshift, VPC, CloudWatch, EC2, IAM, and PySpark for project management.• Successfully validated and verified results using SQL with the original PDF files ensuring data accuracy within the (Data Warehouse) DWH.• Enhanced data accessibility, resulting in an 80% reduction in retrieval time and thus increased decision-making efficiency. |
| 05/2020 – 05/2021
Kolkata, India | Senior Web Application Developer, Fortress6 Technologies <ul style="list-style-type: none">• Led design, implementation, and maintenance of relational database systems (RDBMS).• Took responsibility for 7 projects and demonstrated initiative in identifying and solving problems.• Mentored and supported 10 junior developers by imparting expertise and best practices.• Bridged stakeholder requirements into database solutions. |
| 06/2019 – 04/2020
Kolkata, India | Junior Web Application Developer, Fortress6 Technologies <ul style="list-style-type: none">• Researched best practices for designing & implementing SQL Server database structures.• Provided support to developers in writing SQL queries, data migration, and resolving database issues.• Introduced agile practices, resulting in a reduction of project development time by 2 weeks.• Received positive customer feedback on verbal and written communication, with a rating of 9 out of 10. |

EDUCATION

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| 09/2021 – 08/2023
Bremen, Germany | Master of Science in Data Engineering, Jacobs University Bremen <ul style="list-style-type: none">• GPA 2.1 (Germany)• Master Thesis on Detecting Data Drift in clinical NLP pipeline.• Courses: Data Analytics, Probability, Statistical Modelling, Neural Networks, Machine Learning, Data Management with Python and SQL, Data Warehouse and Mining. |
| 08/2015 – 05/2019
Dehradun, India | Bachelor of Technology Computer Science & Engineering, Uttarakhand Technical University <ul style="list-style-type: none">• GPA 1.8 (Germany)• Thesis on Online Web application development.• Courses: Artificial Intelligence (AI), Data Science, Object-oriented programming (OOP), Database Management System (DBMS). |

SKILLS

Technical: (AWS, Python, GitHub, GitLab (CI/CD), SQL, Azure, Docker, Snowflake, Java, C, C++, MS PowerBI, Ubuntu 22.04 LTS (Linux), Kanban, MS Office, R, Bitbucket, Blender 3D, HTML, Google Gen AI.)

Tools/ Libraries: (Scikit-learn, Pickle, streamlit, Tensorflow, Pandas, NLTK, geopandas, matplotlib, plotly, Numpy, Jupyter Notebook, R Studio, NetBeans, Visual Studio.)

Soft Skills: (Communication, Problem-Solving, Technical Leadership, Analytical, Data-driven.)

LANGUAGE

Hindi/Urdu (Native) • **English** (C1) • **German/ Deutsch** (B1)

AWARDS

Recipient of a 100% scholarship for an MSc studies., *Roche Cooperative Study Program*

Academic merit scholarship, *Jacobs University Bremen*

A+ in MySQL training from Microsoft, ranking among the top 5%, *Microsoft Technology Associate*

First place on the Internet of Things (IoT) project, *Tula's Institute*