



Mohammad Tanzil Alam

Data Engineer

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Experience

Roche Diagnostics, Penzberg, Germany (1 year)

June 2022 – July 2023

Apprentice Data Engineer + Master Thesis

Penzberg, Germany

- Completed Master thesis (Detecting Data Drifts in a clinical NLP pipeline) in 6 months and internship (Guideline Digitalisation JSON Backend) in 3 months.
- Streamlined GitLab PDF data extraction with modern DevOps using GitLab API, established an AWS ETL cloud pipeline using Glue, PySpark, S3, and Athena for seamless integration, processing, and querying in a cloud-native environment.
- Implemented end-to-end OCR document processing using advanced NLP techniques and automated pipelines (an application), employing state-of-the-art word embeddings and cosine similarity for real-time data drift detection in a test dataset.

Fortress6 Technologies (2 years)

June 2019 – May 2021

Senior Web Application Developer (13 months)

Kolkata, India

- Led 80% of database development at Fortress6 Technologies, optimizing performance, ensuring data integrity, and implementing robust security measures for 100% scalable solutions.
- Collaborated with a cross-functional team of 4 fostering seamless data flow across, while aligning databases with industry standards and supporting 90% technological advancements for innovation.

Junior Web Application Developer (10 months)

- Assisted in database development and maintenance, actively involved in 50% of SQL-based design, querying, and data upkeep.
- Under the mentorship of experienced professionals, embraced the latest technologies like TYPO3 CMS, collaborated in 80% of team efforts, documenting and testing the proper running of the database.

Education

Jacobs University Bremen

September 2021 – August 2023

Data Engineering

Master of Science (MSc)

GPA 2.1 (1 being the highest)

- Thesis:** Detecting Data Drifts in a clinical NLP pipeline.
- Courses:** Data Analytics | Probability | Machine Learning | Data Mining | Statistical Modeling | Image Processing

Uttarakhand Technical University

August 2015 – July 2019

Computer Science & Engineering

Bachelor of Technology (B. Tech)

GPA: 3.0 (1 being the highest)

- Thesis:** Online Web application development for the Kids Regio website.
- Courses:** Artificial Intelligence | Data Structure using C | The Theory of Automata | Database Management System | Data Warehousing & Mining | Design & Analysis of Algorithms

Languages

German (B1)

English (C1)

Urdu/ Hindi (Native)

Skills

Technologies	Tools	Operating System	Soft Skills
Python, Java, C, C++, R, Docker, AWS, Power BI, MySQL, CI/CD Git, Bitbucket, Kanban, HTML, Blender 3D, MS office	Jupyter Notebook, R Studio, NetBeans, Visual Studio	Linux, Windows, Mac	Communication and Presentation skills, Problem Solving Skills, Technical Leadership, Data-Driven Decision Making, Team Player, Fast Learner, Analytical mindset, Attention to detail

Awards

Roche Cooperative Program	Utkrisht
Received 100% Scholarship for Master’s Education	Awarded 1st position for an IoT project in a Tech fest during Bachelor education