Mohammad Tanzil Alam

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EDUCATION

Sept-2021 - Aug-2023	**Jacobs University Bremen** Master of Science in Data Engineering

- Graduated in August 2023
- Master Thesis on Detecting Data Drift in clinical NLP pipeline.
- Summer Intern on Guideline Digitalization JSON Backend
- University research project on Event Detection by Trilateration Using Nigeria Power Grid (**Skills & Tools**: GeoPandas, plotly, matplotlib, scikit-learn, Python, Pandas, Data Visualization, Time Series Analysis, NumPy.)
- University Poster presentation on Evaluating chatbots (conversational agents)

Sept-2021 - Aug-2023	**Roche Cooperative study program** 100% Scholarship

- Awarded for outstanding academic potential for MSc studies.

Aug-2015 - May-2019	**Uttarakhand Technical University** BSc Computer Science & Engineering

- 1st Division Undergraduate (India)
- Project on the Detection of temperature (Raspberry Pi, Python)

2018	**Microsoft** SQL Training

- Rank among top 5%, Grade A+ (India)

WORK EXPERIENCE

Feb-2023 July-2023	**Master Thesis, Roche Diagnostic GmbH, Data Engineer, Germany**

- Developed an application to detect data drift using big data from Surgical Pathological reports.
- Automate it so that data is collected, cleansed, integrated, and made available for the operation.
- **Skills & Tools**: Machine Learning, Python, NLP, Data Preprocessing, Model Evaluation, Word Embeddings (TF-IDF, Word2Vec), Automation (a simple App), Cosine Similarity, genism, OCR, ETL, Pandas, NLTK, Data Analysis.

June-2022 Aug-2022	**Summer Intern, Roche Diagnostic GmbH, Data Engineer, Germany**

- Designed an AWS cloud pipeline to fetch data from Oncology pdf file.
- Establish ETL to export and transform it into preferred format to perform data curation, data comparison services.
- **Skills & Tools**: AWS (S3, Glue, Athena, Redshift, VPC, CloudWatch, EC2), PySpark, SQL, JSON, Apache Parquet, Data Mining.

May-2020 - May-2021	**Senior Web Application Developer, Fortress6 Technologies, India**

- Responsible for 80% of the database development, optimizing performance and ensuring data integrity
- Worked in Scrum teams and agile software development
- Led strategic design initiatives, implemented robust security measures, and collaborated with 4 diverse teams, fostering seamless data flow.

June-2019 - April-2020	**Junior Web Application Developer, Fortress6 Technologies, India**

- Contributed towards the database development and maintenance, supporting the team in various tasks.
- Assisted in 50% of database design, basic querying, and data maintenance using MySQL.

LANGUAGES

Urdu/ Hindi (Native), English (C1), German (B1)

SKILLS

Technologies: Python, Java, Docker, AWS, Power BI, MySQL, CI/CD Git, Bitbucket, Kanban, HTML, C, C++, R, Blender 3D, MS Office, ML/AI

Tools: Jupyter Notebook, R Studio, NetBeans, Visual Studio

Operating System: Linux, Windows, Mac

Soft Skills: Communication and Presentation skills, Problem Solving Skills, Technical Leadership, Data-Driven Decision Making.