

Mohammad Tanzil Alam

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EDUCATION

Sept-2021 - Aug-2023	Jacobs University Bremen Master of Science in Data Engineering <ul style="list-style-type: none">Graduated in August 2023Master Thesis on Detecting Data Drift in clinical NLP pipeline.Summer Intern on Guideline Digitalization JSON BackendUniversity 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 <ul style="list-style-type: none">Awarded for outstanding academic potential for MSc studies.
Aug-2015 - May-2019	Uttarakhand Technical University BSc Computer Science & Engineering <ul style="list-style-type: none">1st Division Undergraduate (India)Project on the Detection of temperature (Raspberry Pi, Python)
2018	Microsoft SQL Training <ul style="list-style-type: none">Rank among top 5%, Grade A+ (India)

WORK EXPERIENCE

Feb-2023 July-2023	Master Thesis, Roche Diagnostic GmbH, Data Engineer, Germany <ul style="list-style-type: none">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 <ul style="list-style-type: none">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 <ul style="list-style-type: none">Responsible for 80% of the database development, optimizing performance and ensuring data integrityWorked in Scrum teams and agile software developmentLed 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 <ul style="list-style-type: none">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.