

## Mohammad Tanzil Alam

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### EDUCATION

Sept 2021-Aug 2023	<b>Jacobs University, Bremen, Germany</b> MSc in Data Engineering <ul style="list-style-type: none"><li>Graduated in August 2023.</li></ul>
Sept 2021- Aug 2023	<b>Roche Cooperative study program</b> 100% Scholarship <ul style="list-style-type: none"><li>Awarded for outstanding academic potential.</li></ul>
Aug 2015- July 2019	<b>Uttarakhand Technical University, Dehradun, India</b> B.Tech Computer Science & Engineering <ul style="list-style-type: none"><li>Undergraduate in June 2019</li><li>1st Division Undergraduate (India).</li></ul>
Major Subjects –	Data Analytics, Probability, Statistical Modelling, Artificial Intelligence, Machine Learning, Data Management with Python and SQL.

### WORK EXPERIENCE

Feb 2023 – July 2023	<b>Master Thesis, Roche Diagnostic GmbH, Penzberg, Germany</b> Using Python, designed ETL pipeline and automate the application to compare different reports.
June 2022 – Aug 2022	<b>Summer Intern, Roche Diagnostic GmbH, Penzberg, Germany</b> Established Cloud Pipeline using AWS for Data Curation, Data Analysis, Data Comparison, etc. between different reports.
May 2020 – May 2021	<b>Senior Web Developer, Fortress6 Technologies, Kolkata, India</b> Designed and tested Database with high accuracy level in Typo 3 CMS (Content Management System).
June 2019 – April 2020	<b>Junior Web Application Developer, Fortress6 Technologies, Kolkata, India.</b> Collaboratively contributed to code, develop and design using Php, HTML & SQL. Facilitated by documenting the website design workflow using Google Docs.

### 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  
**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.

### PROJECTS

- Master Thesis on Detecting Data Drift in clinical NLP pipeline**
  - Developed and automated an application to detect data drift using big data from Surgical Pathological reports.
  - Skills and 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.
- Roche Intern Project on Guideline Digitalization JSON Backend**
  - Designed an AWS cloud pipeline to fetch data from Oncology pdf file and perform data curation, data comparison services.
  - Skills and Tools: AWS (S3, Glue, Athena, Redshift, VPC, CloudWatch, EC2) PySpark, SQL, JSON, Apache Parquet, Data Mining.
- University Advance Project on Event Detection by Trilateration Using Nigeria Power Grid**
  - Researched and conducted time series analysis and data visualization using python library to find any abnormal event occurring in the power grid.
  - Skills and Tools: GeoPandas, plotly, matplotlib, scikit-learn, Python, Pandas, Data Visualization, Time Series Analysis, NumPy.
- Image Classification for Medical Diagnosis**
  - Creating a deep learning model to classify medical images (e.g., X-rays, MRI scans) for a specific diagnosis task (e.g., detecting diseases).
  - Skills and Tools: Deep Learning, Python, TensorFlow, Keras, Medical Image Analysis.

### INTERESTS

Data Analysis, Chess, Meditation.