

Mohammad Tanzil Alam

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EDUCATION

Sept 2021-Aug 2023	Jacobs University, Bremen, Germany MSc in Data Engineering <ul style="list-style-type: none">Graduated in August 2023.
Sept 2021- Aug 2023	Roche Cooperative study program 100% Scholarship <ul style="list-style-type: none">Awarded for outstanding academic potential.
Aug 2015- July 2019	Uttarakhand Technical University, Dehradun, India B.Tech Computer Science & Engineering <ul style="list-style-type: none">Undergraduate in June 20191st Division Undergraduate (India).
Major Subjects –	Data Analytics, Probability, Statistical Modelling, Artificial Intelligence, Machine Learning, Data Management with Python and SQL.

WORK EXPERIENCE

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

LANGUAGES

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

SKILLS

Technologies: Python, Java, Docker, AWS, Power BI, MySQL, CI/CD Git, Bitbucket, Kanban, HTML, C, C++, JavaScript, 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**
 - Created 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.