







Mohammad Tanzil Alam

Data Engineer

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Nationality : Indian

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Education

Jacobs University Bremen

Data Engineering September 2021 – August 2023
GPA 2.1 (1 being the highest) Master of Science (MSc)

- **Thesis:** Detecting Data Drifts in a clinical NLP pipeline.
- **Courses:** Data Analytics | Probability | Machine Learning | Data Mining | Statistical Modeling | Data Management with Python & SQL

Uttarakhand Technical University

Computer Science & Engineering August 2015 – July 2019
GPA: 3.0 (1 being the highest) Bachelor of Technology (B. Tech)

- **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
- The four-year program included theoretical and practical modules.

Experience

Roche Diagnostics, Penzberg, Germany (1 year)

Apprentice Data Engineer + Master Thesis June 2022 – July 2023
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.
- Migrated large volumes of Oncology PDF data with modern DevOps using the Git API.
- Established an AWS ETL cloud pipeline using Glue, PySpark, S3, and Athena for designing, building, and maintaining infrastructure that supports data analysis in a cloud-native environment.
- Implemented an ETL pipeline for end-to-end OCR surgical pathology document processing through Python, incorporating advanced NLP techniques.
- Developed an automated application using state-of-the-art word embeddings and cosine similarity for real-time data drift detection on pathology reports.

Fortress6 Technologies (2 years)

Senior Web Application Developer (13 months) June 2019 – May 2021
Kolkata, India

- Led 80% of database development which includes optimizing performance, ensuring data integrity, and implementing robust security measures for 100% scalable solutions.
- Collaborated with project managers, project engineers, and project control personnel to support ongoing projects.
- Transcribed diagnostic information and procedures into proprietary software, aligning with systems engineering frameworks.
- Organized technical information on subject matter content. Effectively communicate complex technical content to high-end customers.

Junior Web Application Developer (10 months)

- Under the mentorship of experienced professionals, embraced technologies like TYPO3 CMS, collaborated in 80% of team efforts, documenting and testing the proper running of the database.
- Worked in the product lifecycle from ideation, user research, and gathering requirements, to launch readiness.
- Developed refined solutions to ensure customer, operational, and technology requirements for query resolution.
- Detailed-oriented and organized, with an ability to demonstrate developing written and verbal presentation skills.
- Experience and knowledge working in Agile methodology.

Languages

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

Skills

| Technologies | Tools | Operating System | Soft Skills |
|--|---|---------------------|---|
| Python, Java, C, C++, R, Docker, AWS, CI/CD Git, Bitbucket, Kanban, HTML, Blender 3D, MS office, Microsoft Power BI, Azure, Snowflake, SQL | 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, Attention to detail, Collaborative, Cooperative, Contributive, Decision Making, Enthusiastic, Proficient, Analytical Thinker, Timely, Requirement Analysis, Content Management, Quality Analysis/Check |

Awards

- Received 100% Scholarship for Master’s Education
- Awarded 1st position for an IoT project in a Tech fest during Bachelor education
- Participated in Science Olympiad Competition