



Tousif Ahamed Mohammed

Data Engineer and Data scientist

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Atlassian Jira Account :
https://id.atlassian.com/m
anage-profile/profile-
and-visibility

FERTIGKEITEN

Programming Knowledge

Java,Advanced Python, R, Java
Script

Data Engineering, Databases and Visualization tools

Data Pipelines: ETL Pipelines;
Web scraping: Beautiful Soup;
SQL: MS SQL Server,
PostgreSQL, MySQL; MongoDB:
PyMongo; Cloud: AWS, Azure;
Power BI: Business reports and
Dashboards; Figma: Web
design Flow

Frameworks

Grafana, Terraform, PySpark,
ELK stack, Kafka, Airflow,
Docker, Jenkins, Flask, REST API,
TensorFlow, scikit-learn, TPOT,
PyTorch, OpenCV, Pandas,
Numpy, Matpoltlib, Seaborn,
River

Management Tools

Design thinking, Agile
Methodology (SCRUM MASTER,
KANBAN).

Version Control

Bitbucket, GitHub, GitLab

Betriebssysteme

Microsoft Windows, Mac OS,
Android OS, Linux (Ubuntu)

INTERESTS

Played as an all-rounder for
the Deutscher Cricket Bund -
Cologne CC Cricket Club.

Part time singer and
songwriter in India

LANGUAGES

English

Business Fluent

German

Intermediate

AWARDS

Second place at the "European
BEST Engineering Competition"
European Best

Paper presentation at INDIAN
INSTITUTION OF TECHNOLOGY
(IIT) MADRAS on "SUSTAINABLE
MANUFACTURING".
IIT Academics

SKILLS

Hands on Machine Learning
with Tensorflow
Udemy

AWS Architect Associate SAA-
C03
Udemy

MS SQL Server and
POSTGRESQL
Udemy

Cloud Computing and Hybrid
Cloud vs On-premises Solution
Udemy

Mohammed Tousif Ahamed

14. März, 2023

WORK EXPERIENCE

Free Lancer at Koln-Auto Blitz

(October 01, 2022 – Present)

Data Engineering and Web developer

- Developing, optimizing and maintaining the websites and applications such as customer service domains utilizing **HTML, CSS, Python Flask, MySQL, Javascript, jQuery and various APIs** to meet my client's needs and goals.
- Coding design mockups into pixel-perfect, tableless, cross-browser compatible, search engine friendly websites.
- Deploying web application into **United Domains Web space**.
- Managing creative projects from concept to completion while managing end Customers.
- Diagnosing, troubleshooting and resolving the issues with website, server and third-party integrations (**ELK Stack**).
- Built a **PowerBI** dashboard to visualize core business **KPIs** and implemented using **Snowflake**.
- Designed the data pipelines architecture in a team for a new product that scaled from 1 to 10,000 daily active users (**KAFKA**) .

Bosch Gmbh (Partnered with E. ON Energy Research Centre), Deutschland

(October 01, 2021 – May 31, 2022)

Master thesis in Continuous model learning techniques for data-driven model predictive control of building energy systems.

- Identifying the business problem by studying various Model Predictive Control (**MPC**) approaches.
- Creating a comprehensive framework that incorporates everything from Data Generation to Data Utilization. (**PySpark, TPOT, ETL, SQL, Matplot lib, Seaborn**).
- Data Extraction through Modelica Simulation model (**FMU API**).
- Automatic Machine Learning (**Auto ML**) system model selection for **MPC**.
- Utilizing several statistical **KPIs** to evaluate the system model selected by **Auto ML** and increasing the model's efficiency through data modification approaches.

Bosch Gmbh (Partnered with E. ON Energy Research Centre), Deutschland

(June 01, 2021 – December 11, 2022)

Data Science and Data Engineer

- Development and implement of **agent-based software frameworks** within the context of renewable energy systems (**Python OOP**).
- Focused on the implementation of Python software for an agent-based model predictive control framework (**ETL pipeline**).
- Focused on increasing usability and documentation standards (**MK-Docs, Sphinx**).
- Modelling of energy systems through **Supervised Machine Learning**.
- Familiar with the programming language and various concepts of **Machine Learning**.
- Automatic triggering python function which converts python file format to Jupiter notebook and markdown file (**Jenkins and Docker**)

Bayerische Motoren Werke AG (BMW), Deutschland

(March 01, 2020 – September 30, 2020)

Intern as Data Engineer w/ Data privacy and Machine learning

- Extracting Customer data from an cloud-based infrastructure **AWS S3 bucket** and importing it into a Python environment (**AWS Boto3**).
- Developing Data Privacy Algorithms such as **K-anonymity, L-diversity**, and various De-identification procedures with object-oriented programming (**PYTHON**).
- Keeping the data Utility running to achieve roughly the same efficiency as **ML algorithms** before and after applying De-identification techniques (**Statistical Measuring Metrics**).
- Project Management using **Agile techniques(JIRA, Scrum)** and maintaining the project code by using version control (**Bitbucket and Github**).
- Creating an **ETL pipeline** to extract customer data, anonymize it, and load it into an **AWS S3 bucket**.

Department of Sanitary Mechanics of the Indian Municipal Corporation, India

(July 01, 2017 – August 31, 2018)

Data Engineer and Analytics

- Extracting Data from Machines Using **REST APIs**.
- Managing the data modelling, databases **SQL**.
- Analysing the wear and tear of machines (**Supervised and Unsupervised ML**)

Toyama Controls and System Private Limited,India

(May 01, 2015 – February 29, 2016)

Data analyst

- Managing the SQL database.
- Extracting meaningful insights from different CAD-designed model data (statistical analysis).
- Preparing PowerBI dashboards for data intelligence and analysis

EDUCATION

RWTH Aachen University, Deutschland

(September 20, 2018 – September 11, 2022)

Master of Science, Robotics Systems
software Engineering

Jawaharlal Nehru Technical University, India

(October 11, 2013 – April 06, 2017)

Bachelors Degree, Mechanical Engineering

PROJECTS

BMW GAIA-X

Gaia-X is a project initiated by Europe for Europe and beyond. An open, transparent and secure digital ecosystem, where data and services can be made available, collated and shared in an environment of trust.

BMW Power Hackathon

Machine Learning and Data analyst

Implemented an ML algorithm by integrating several ML techniques to forecast the life of a vehicle battery (**AWS SageMaker, PySpark, EC2**).

Building my portfolio website (Java script, HTML, CSS, boot strap, Python Flask)

Creating webpage for personal Portfolio for the recruiters.