

Shaikh Rezwan

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Education

10/2019 – Present

M.Sc. in Digital Engineering

- Otto von Guericke University Magdeburg, Germany
- **Relevant Coursework:** Data Structure and Algorithms, Modeling Relational Databases, Python Programming, Machine Learning, Data Warehousing, Management of IT Systems in Large Companies.
- **Scientific Project:** Sentiment Analysis of SQL Validator User Chats and Surveys Using Combined Approaches
 - Data analyzed: Historical student chat and text data from SQL Validator.
 - Analysis steps: Data preparation, cleaning, labeling, exploratory data analysis, building a sentiment analysis model using NLP and SVM methods to label user chats.
 - Tools used: Python in Google Colab for programming and visualization, Excel for data transformation.

01/2015 – 11/2018

B.Sc. in Electrical & Electronic Engineering

- Islamic University of Technology (IUT), Bangladesh
- **Relevant Coursework:** C / C++ programming, MATLAB/Simulink, Economics, Statistics, Advanced Mathematics.
- **Leadership Activities:** Organized Esonance, the largest engineering competition in Bangladesh.

Professional Experience

03/2022 – 06/2022

Data Analyst and Validation Lead

Stadtplanungsamt Magdeburg & OVGU

- Led a team for data validation using SPSS, improving overall traffic safety up to 95 percent.
- Cleaned, analyzed, and visualized collected road traffic data using Google Sheets and Excel.
- Supported the creation and ensured the quality of reports in PowerPoint and Google Slides, then presented the insights to stakeholders.
- Created and adjusted iterative simulation models to reduce overall road-maintenance cost by 30 percent.
- Effectively implemented data pipelines with fellow team members in an agile environment, using ad-hoc reports and KPI dashboards, increasing productivity by 80 percent.

01/2022 – 11/2022

Google Data Analytics Professional Certification

Coursera

- Analyzed and visualized Google cloud financial datasets using spreadsheets, Big Query Console, and R Programming.
- Created interactive dashboards using Tableau which delivered the visualizations effectively.
- Completed a case study to solve a real-world business problem using all the data analytics phases.

Data Analytics/Scientific Team Projects

- Investigation of COVID 19 Infections and Death Counts (02/2023 – Present)
- Exploratory Data Analysis of International Football Results (03/2022 – 02/2023)
- Development of SQL Validator Teams Report Webpage (10/2021 – 03/2022)
- Software Development Project- You Never Fly Alone (04/2020 - 07/2020)

Training and Certifications

Data Analyst in SQL Career Track (02/2023 – Present)

- DataCamp

Power BI Fundamentals (03/2023 – Present)

- DataCamp

Data Analysis with Python (03/2022 – Present)

- Jovian.ml

Languages

- **English** - Full Professional Proficiency
- **Bengali** - Native or Bilingual Proficiency
- **Deutsch** - Limited Working Proficiency

Skills

- Proficient in Microsoft Office (Excel, Word, PowerPoint) and Google Suite (Sheets, Docs, Slides).
- Confident programming skills in R and Python.
- Experience in data management and analysis using SQL.
- Data visualization skills with Tableau and Power BI.
- Familiarity with frameworks and libraries like NumPy, Pandas, Matplotlib, and Seaborn.
- Ability to work with predictive modeling tools and machine learning algorithms using Scikit-learn and TensorFlow.
- Experience in agile project management, ETL processing, and social media marketing.
- Strong organizational skills with excellent analytical problem-solving abilities.
- Cross-functional team player with excellent presentation and communication skills.
- Detail-oriented, fast learner and eager to expand knowledge.