

SADIA HOSSAIN

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[LinkedIn](#) | [Kaggle](#) | [GitHub](#)

WORK EXPERIENCE

Data Analyst Intern | Pathao

Mar 2024 - Sept 2024

Dhaka, Bangladesh

- Analyzed large datasets using Python (pandas, NumPy) and SQL to uncover trends in customer engagement for a retail analytics platform.
- Built interactive dashboards in Power BI to visualize key performance indicators, improving data accessibility for non-technical stakeholders.
- Cleaned and transformed raw data for use in weekly reporting, reducing data preparation time by 30%.
- Collaborated with data scientists and business analysts to validate hypotheses and support decision-making processes.

PROJECT HISTORY

Earthquake Anomaly Detection

- Designed and implemented a machine learning pipeline to detect anomalies in seismic activity data. Leveraged time series analysis and unsupervised learning to highlight irregular patterns potentially linked to earthquakes.
- Link: <https://www.kaggle.com/code/sadia21121/earthquake-anomaly-detection>

Type 2 Diabetes Risk Prediction

- Developed a classification model to predict the likelihood of Type 2 diabetes using clinical and lifestyle data. Focused on data cleaning, feature selection, and model evaluation to ensure high predictive accuracy and interpretability.
- Link: <https://www.kaggle.com/code/sadia21121/type-2-diabetes-risk-prediction>

Football World Cup 2022 Website – Award-Winning Team Project

- Worked as part of a collaborative team to build a dynamic and responsive website centered on the FIFA World Cup 2022. Contributed to both frontend and backend development, and database, optimizing the user experience. Honored with the **Best Project Award** by course faculty for outstanding execution and innovation.
- Link: <https://github.com/SadiaHossain21/fifa-worldcup-2022>

SKILLS

- Programming: Python, SQL, R
- Data Analysis & ML: pandas, NumPy, scikit-learn, TensorFlow, PyTorch
- Web Development: HTML, CSS, JavaScript (FRONTEND), PHP (BACKEND)
- Tools & Platforms: Git, Jupyter Notebooks, VS Code
- Other: Data preprocessing (EDA), Model evaluation, Full-stack Development
- Visualization: Matplotlib, Seaborn, Power BI

EDUCATION

MSc Data Science | Aston University

Jan 2025 - Ongoing

Birmingham, United Kingdom

BSc Computer Science & Engineering | East West University

Jan 2020 - Jan 2024

Dhaka, Bangladesh

Major in **SOFTWARE ENGINEERING**

CERTIFICATION

- Data Analytics and Power BI - Interactive Cares
- Intro to Machine Learning- Kaggle

PUBLICATION

- Enhancing Early Diagnosis and Precise Classification of Type 2 Diabetes with Diabetic Retinopathy Using Machine Learning and Image Processing, **7ICOIAC**, 20 November, 2024
Link: <https://ieeexplore.ieee.org/document/10912889>
- Strategies for Effective Malware Analysis and Detection Using Machine Learning Algorithms, **COMPAS**, 25 September, 2024
Link: <https://ieeexplore.ieee.org/document/10797025>