



## Md. Zawharul Islam

Mymensingh, Bangladesh

+880-1778394305

[zcodeeng@gmail.com](mailto:zcodeeng@gmail.com)

[LinkedIn](#) — [Portfolio](#)

### Education

**Jatiya Kabi Kazi Nazrul Islam University, Bangladesh**

*Feb 2017 – Apr 2023*

B.Sc. in Computer Science and Engineering

**CGPA:** 3.22/4.00 (3.50 in last four semesters)

### Research Experiences

**Undergraduate Research Assistant** *Apr 2022 – Feb 2023*

- Conducted research in Medical Analytics, Machine Learning, Deep Learning, and Big Data.
- Developed advanced algorithms for comparative effectiveness in healthcare using large datasets.
- Collaborated with multidisciplinary teams, presented research findings, and contributed to academic papers.

### Publications

Zawharul Islam et al., "Feature value quantization and reduction process for predicting heart attack possibility," *International Journal of Engineering and Computer Science*, 2024.

**DOI:** <https://doi.org/10.18535/ijecs/v13i07.4831>

### Projects

**Heart Disease Detection With Repeated HeatMap Using Machine Learning** *Apr 2022 – Feb 2023*

*Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn*

**Hospital Management System** *Mar 2022 – Sep 2022*  
*PHP, MySQL, JavaScript, HTML, Bootstrap*

A website is built for a hospital where I tried to put every possible feature for better treatment and service that can be received from a hospital. Actually, it's a dummy model where I was asked to create a model hospital website that can be useful for remote treatment using 5G technology.

**Agricultural Help** *Aug 2021 – Feb 2022*

*PHP, MySQL, JavaScript, HTML, Bootstrap*

This is a website which is run on a local server to demonstrate the real life scenario of how the people related to agriculture can get the information and expert help from this website to grow their crops.

**Children Vaccination system** *Oct 2019 – Mar 2020*

*Java, Eclipse, MySQL*

Designed a sample vaccination system using Java to simulate the real time scenario to health workers. The goal is to ensure 100% vaccination of every child. Health workers can add a new child to the system, can update the child account, and can check how many vaccine shots are given to

that child according to WHO vaccination chart. Children data records is controlled by MySQL.

**Student Management System** *Oct 2018 – Mar 2019*  
*C, MySQL*

A system is developed to manage all the student related information using C programming language. Large data is managed using MySQL.

### Technical Skills

**Programming Languages:** Python, PHP, JavaScript, C++

**Web Development:** Django, Tailwind, Bootstrap

**Database Management:** MySQL

**Version control:** Git, Github

**Other Technologies:** Data Visualization (Seaborn, Matplotlib, PowerBI etc.), Machine Learning (Pandas, Scikit, TensorFlow, etc), Web Scraping (Beautiful Soup), Microsoft Office (Word, Excel, PowerPoint)

### Language Proficiency Test

**IELTS:** Band Score 6 (Academic)

### Certifications

**DataCamp:** SQL Fundamentals (22 hours), Excel Fundamentals (16 hours), Python Programming (24 hours), Supervised Machine Learning in Python (25 hours), Importing & Cleaning Data with Python (13 hours), Data Manipulation with Python (16 hours), Data Visualization with Python (16 hours), Deep Learning in Python (16 hours), Time Series with Python (20 hours), Image Processing with Python (12 hours)

**Udemy:** Fundamental Data Analysis and Visualization Tools in Python

**Coursera:** Programming for Everybody (Getting Started with Python)

### Accomplished trainings and workshops

**Supervised and Unsupervised Learning with python**

*June 2022 – July 2023*

*EMK Center Dhaka, Bangladesh*

Supervised learning- Linear Regression, Logistic Regression, Accuracy Metrics, Decision Tree, Cross-validation and Grid Search. Unsupervised Learning- K-means Clustering.

**A journey of Deep Learning hands-on practice**

*Feb 2022 – Mar 2022*

*By- Md Rafiul Hassan, Associate Professor, Computer Science University of Maine, Presque Isle*

Participants learned how the CNN Sequential Gender Recognition Model works, explored the MobileNetV2 architecture and its functioning, and gained insights into the operation of LSTM in RNN.

## Experience

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**Research Based:** Python (4 Years), Machine Learning (3 Years)

**Academic Based:** Microsoft Office (Word, Excel, PowerPoint) (8 Years)

## Extracurricular Activities

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Active in community service since 2014: tree planting, waste collection, blood donation, and COVID-19 relief efforts.

## References

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- Dr. A. H. M. Kamal  
Professor, Department of Computer Science and Engineering  
Jatiya Kabi Kazi Nazrul Islam University, Trishal, Mymensingh, Bangladesh  
Phone : +880-1732226402  
Email: [kamal@jkknui.edu.bd](mailto:kamal@jkknui.edu.bd)
- Dr. Mst Jannatul Ferdous  
Professor, Department of Computer Science and Engineering  
Jatiya Kabi Kazi Nazrul Islam University, Trishal, Mymensingh, Bangladesh  
Phone : +880-1710695925  
Email: [mjferdous\\_cse@jkknui.edu.bd](mailto:mjferdous_cse@jkknui.edu.bd)