

MD MIZANUR RAHMAN

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Professional Experience

- **CodeAlpha** Remote (Lucknow, India)
Machine Learning Intern 10, September 2024 – 10, December 2024
 - **Languages/Frameworks/Tools:** Python, Tensorflow, Keras, Jupyter Notebook, GitHub, Kaggle, Google Colab
 - **Responsibilities:** Doing some hands-on projects based on requirements.

Professional Training

- **Creative IT Institute** Dhaka, Bangladesh
Python with Machine Learning 30, December 2023 – 30, June 2024
 - **Languages/Frameworks/Tools:** Python, Tensorflow, Keras, Pandas, Scikit-learn, Jupyter Notebook, GitHub, Kaggle.
 - **Responsibilities:** Developing machine learning models for getting more accurate output.
- **Improvement IT Education** Dhaka, Bangladesh
Basic to Advance Computer Training April 2016 – June 2016
 - **Languages/Frameworks/Tools:** MS Office, MS Excel, MS PowerPoint, Internet Browsing, E-main Handling.
 - **Responsibilities:** Completing basic to advance typing, solving relevant tasks, attending and organizing team meetings.

Education

- **University of Liberal Arts Bangladesh** Dhaka, Bangladesh
 - *Bachelor of Science- Computer Science and Engineering (CGPA-3.48)* January 2020 – February 2025
 - **Relevant Courses:** Data Structures and Algorithms, Software Engineering, Artificial Intelligence, Machine Learning, System Design.
- **Government Laboratory High School** Dhaka, Bangladesh
 - *Higher Secondary School Certificate (GPA-3.92)* July 2017 – May 2019
- **Shahid Sheikh Rasel Govt. High School** Dhaka, Bangladesh
 - *Secondary School Certificate (GPA-5.00)* January 2015 – March 2017

Skill Summary

- **Programming Languages:** C, C++, Python, Java, JavaScript, PHP.
- **Web Technologies:** HTML, CSS, Bootstrap.
- **Machine Learning Technologies:** Scikit-learn, Tensorflow, Keras, NumPy, Pandas, Matplotlib, Seaborn.
- **Databases:** MySQL, HeidiSQL, Xampp.
- **Other Tools:** LaTeX, Tableau, Jupyter Notebook, Apache NetBeans, Kaggle, Google Colab, Code::Blocks.
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management, Communication.

Research & Publications

- **Submitted Research | Customized MobileNetV3 to Enhance YOLOv11 for Real-Time Insect Detection-** A real-time insect detection system by integrating a customized MobileNetV3 backbone into the YOLOv11 architecture to improve detection accuracy and reduce computational overhead. Trained on the BAU-Insectv2 dataset (1,806 images, 9 insect genera), the model achieved high detection performance while maintaining suitability for resource-constrained environments. Delivered a web-based application to assist farmers in timely pest identification and control, contributing to sustainable agricultural practices.
Supervisor: Dr. Mohammed Ashikur Rahman, Assistant Professor Dept. of CSE, University of Liberal Arts Bangladesh

Mini Projects

- **Real-time Sports Fitness Monitoring System for Athletes' based on Internet of Things (Internet of Things)-** Created a project for the sportsman for testing their current physical availability for upcoming competition. The system is able to determine the athlete is fit or not and what type of exercise suit for them based on their heart rate. Breadboard, Arduino Uno, Heart Rate Sensor, LED display, Python were used to accomplish the project.

- **A RELATIVE DATA ANALYSIS ON LUNG CANCER PREDICTION IN BANGLADESH (August, 2023)**- Developed a machine learning model to predict the lung cancer in Bangladesh considering on age, alcohol use, gender, dust allergy, genetic risk, chronic lung disease, air pollution and so on. The model can provide almost 100% accurate output. Python (Pandas, Matplotlib, Seaborn), machine learning models (Linear Regression, Decision Tree, KNN), Naïve Bayes were used to build the project.
- **Hospital Management System**- Built a hospital management system using data structure algorithms, and C++ in Data Structure course. The information of a new patient can be added, possible to see the information of old patient, information can be updated and deleted using the system.

Co-curricular Experience

- **Volunteer in ULAB 7th Convocation** Dhaka, Bangladesh
University of Liberal Arts Bangladesh 7, May 2024
 - **Responsibilities:** Serving as a guest and protocol volunteer. Communicating with the guest and authorities of the convocation management and organizing meeting with the guest and protocol team.
- **Batch Ambassador of ULAB Computer and Programming Club** Dhaka, Bangladesh
University of Liberal Arts Bangladesh May 2022 – September 2023
 - **Responsibilities:** Working as a batch ambassador for 201 batch. Establishing a strong connection among all the member of the club, encouraging the general member to participate in programming contests and events.
- **General Member at ULAB Computer and Programming Club** Dhaka, Bangladesh
University of Liberal Arts Bangladesh January 2021 – September 2023
 - **Responsibilities:** Participating in programming contests, events, general meetings. Working as a volunteer to established the network among the executive members and other general members of the club.
- **General Member at ULAB Social Welfare Club** Dhaka, Bangladesh
University of Liberal Arts Bangladesh May 2023 – September 2024
 - **Responsibilities:** Was the most active member of the club. Participating in Campus Cleaning event, Eid Gift distribution program, fund collection events for cancer and flood affected people.

Honors/Awards

- 2nd Runner Up: “InspireSphere, 2024”, organized by ULAB Social Welfare Club.
- 2nd Runner Up: “Is programming Fun or Scary?, 2022”, organized by ULAB Computer and Programming Club.

Areas of Interest

- Software Engineering
- Artificial Intelligence
- Machine Learning
- Deep Learning
- Natural Language Processing
- Computer Vision