

Alfaz Uddin Emon

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EDUCATION

International Islamic University Chittagong

April 2021 – 2025

Bachelor of Science in Computer Science and Engineering

- passionate about AI, NLP, Machine Learning, Full-Stack development and research, creating impactful projects for I focus on exploring AI research and real-world applications, turning complex data into meaningful insights and solutions.
- Awards: Tuition Fee Waiver for achieving a GPA up to 3.8 (2x), Hult Prize On-Campus 3rd runner up.

EXPERIENCE

Undergraduate Teaching Assistant

June 2022 – January 2025

International Islamic University Chittagong

Chittagong, Bangladesh

- Conduct courses: Database Management System, Operating System, Computer graphics, Image Processing

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Java, JavaScript, HTML5/CSS4, MySQL, L^AT_EX

Tools: Git/GitHub, Figma, Prompt Engineering

Frameworks and Libraries: React, Node JS, Pandas, NumPy, Matplotlib, Keras, TensorFlow

Concepts: Linux, Computer Security and Networking, SDLC (Agile, Waterfall), Cloud Computing, Neural Network ML, NLP, Image Processing, Database, OS, Deep learning, Computer vision

PROJECTS

Health-Assistant-Bot |

Python, html, JavaScript, Api, numpy, Tailwind CSS, CSS, Jupyter.

January 2023

- Description: A lightweight, interactive web application that helps users get a preliminary, data-driven diagnosis based on their symptoms. The provided diagnosis is generated from a pre-trained dataset and may not represent an actual medical condition.

Occlusion Aware Pose Estimation | | MDP |

Jupyter, OPencv, Openpose, G2O, Eigen3,python,CV2,Glob

June 2024

- Description: Human poses are estimated under occlusion by extracting keypoints with OpenPose and refining them using G2O-based graph optimization to handle missing or uncertain points.

HeartBeam: Heart Wellness Tracker |

Joblib,Streamlit, Jupyter, Python, Scikit-learn , Matplotlib, NumPy,pandas

May 2024

- Description: It predicts heart disease using a trained KNeighborsClassifier model. It provides interactive visualizations of results and allows downloading batch predictions for easy analysis.

ArogyaNER |

Numpy, TextBlob, Matplotlib, Jupyter, NLTK, LSTM, Jupyter, Python, Scikit-learn

Mar 2025

- Description: ArogyaNER is an AI-driven project that introduces Bangla Medical Named Entity Recognition & Specialist Classification. It is a Bangla Medical NLP framework for healthcare text analysis. For the NER task, the LSTM-based sequence model performed well in recognizing domain-specific Bangla medical entities.

AT-G2O Pose Refinement |

Html, Javascript, Tailwind CSS, CSS, Jupyter, Api, OPencv, Openpose, G2O, Eigen3,python

July 2023

- Description: Introduce AT-G2O (Anatomical-Temporal Pose Refinement using Graph Optimization), a novel algorithm designed to refine 2D human pose estimations by integrating anatomical and temporal constraints within a graph optimization framework

Ongoing Project:     

EXTRACURRICULAR ACTIVITIES

IIUC Computer Club | Assistant Sports Secretary

Jan 2022 - Present

- Assisted in organizing and managing inter-departmental sports events and competitions. Coordinated club members, schedules, and resources to ensure smooth event execution.