B.M. SABBIR HOSSEN RIAD

+8801780944116 sabbirhossen.riad@gmail.com
SabbirHossenRiad SabbirHossenRiad

Technical Skills

- **Languages:** Python, C
- **Concepts:** Data Structures & Algorithms, Basic System Design, SDLC
- **Machine Learning:** scikit-learn, pandas, NumPy, matplotlib, seaborn
- **Tools:** Google Colab, Git, VS Code
- **Database:** MySQL
- **Others:** MS Office Suite

Language

- Bangla (Native)
- English

HOBBIES

- Traveling
- Video Game

PROFILE

An undergraduate in Computer Science and Engineering from Daffodil International University, and have a strong background in machine learning, data preprocessing, and applied artificial intelligence. Underway with a research study aiming to predict the mental health of students based on ML techniques that involve stages in an end-to-end spectrum, including data collection, analysis, feature engineering, and developing the model.
Enthusiastic about using technological solutions to address real life issues and interested in using technical and analytical skills in dynamic workplaces. Willing to seize any opportunities to be innovative and build social change based on AI, data science, or software development.

EDUCATION

Bachelor of Science

Daffodil International University
Computer Science & Engineering
2022 – Present

HSC

TMSS Public School & College
2018 - 2020

SSC

Dhunat N U Pilot High School
2013 - 2018

CERTIFICATIONS

- National Skill Standard Basic Course on Database Programming
  Session: Jan-Jun 2018

Research Experience

Lead Researcher

Leveraging Machine Learning for Student Mental Health Assessment and Prediction
Daffodil International University, Jan 2025 – Present
Technologies: Python, pandas, NumPy, scikit-learn, matplotlib

- Designed and conducted a large-scale mental health survey among university students.
- Preprocessed and cleaned data using statistical and ML techniques.
- Conducted feature selection using correlation matrix and RFE.
- Applied classification algorithms (Random Forest, CatBoost, SVM, etc)
- Evaluated models using accuracy, precision, and recall; ongoing manuscript preparation.

Projects

1. Career Recommendation System

AI-Based Decision Support System
Tools: Python, Pandas, NetworkX, Matplotlib, IPyWidgets

- Developed an interactive AI-based system to recommend suitable careers for students.
- Applied A* Search Algorithm over a graph of dataset-driven user traits and outcomes.
- Designed user input widgets and visualized paths to careers based on heuristics.
- Suggested the top 3 career paths based on filtered historical data.