ANANYA DUTTA

CONTACT

Phone:
+8801626371677

Email Address:
ananyadutta676@gmail.com

Address:
408/1, Kuratoli, Khilkhet, Dhaka 1229, Bangladesh.

Website
Ananya's Portfolio Website

GitHub profile
https://github.com/ananyadutta03

TECH SKILLS

- C# (Expert)
- .NET (Expert)
- HTML
- CSS
- PHP
- JavaScript
- C++
- Java
- Python (Expert)
- SQL, MySQL
- Data Structures
- Algorithms

LANGUAGES

- Bengali (Fluent)
- English (Fluent)
- Hindi

OBJECTIVE

Currently, I am a 3rd-year **B.Sc. CSE** student at American International University-Bangladesh. I have successfully engaged in programming, **machine learning**, and **software engineering** through impactful academic projects and an Accepted conference paper. As a skilled **software developer** or **computational researcher,** I am prepared to leverage my strong technical foundation to innovate and address real-world challenges.

PROJECTS

Online Food Hub Portal – C# Windows Forms Application

- Built a C# desktop User-friendly application enabling online food ordering with secure payments, menu management, and user authentication.
- Key features include sign-up/login, menu updates, and order processing.

Tools: C#, .NET Framework, Microsoft SQL Server

Plant Aid - Software Engineering Course Project

- Developed "Plant Aid," a software solution using Agile with Scrum to diagnose plant health, detect diseases, and provide care instructions for farmers and researchers.
- Worked on project proposal, UI design, testing, and functional requirements, implementing features like plant scanning, weather data integration, and community forums.

Tools: Agile Methodology

Stress Detection and Relief Recommendations

- Trained machine learning models to predict stress levels using wearable-derived physiological, behavioral, and demographic data from 374 participants, achieving up to 96% accuracy with a stacked ensemble (Random Forest, XG Boost, Logistic Regression, SVM).
- Built a meta-model delivering personalized stress relief recommendations (e.g., exercise, meditation) and a suicide action plan for high-risk cases.

Tools: Python, Scikit-learn, XGBoost, Pandas, NumPy

PUBLICATION

Optimizing Big Data Pattern Search: Advanced String Manipulation Techniques in C++ (Accepted)
Kazi Redwan∗, Mustakim Ahmed∗, MD. Faruk Abdullah Al Sohan, Md. Maruf Hossain Munna∗, Syeda Shakira Akter∗, Ananya Dutta∗, Md. Asif Sarker Emon∗

EDUCATION

B.Sc. (Hons) in Computer Science and Engineering
American International University-Bangladesh
CGPA: 3.70 / 4.0
Dhaka, Bangladesh
Since May 2022

Kapasgola City Corporation Mohila Collage
Higher Secondary School Certificate in Science Group
GPA: 5.00 / 5.00
Chittagong, Bangladesh
December 2021

Kapasgola City Corporation Girls High School
Secondary School Certificate in Science Group
GPA: 5.00 / 5.00
Chittagong, Bangladesh
June 2019

CERTIFICATION

Cisco Certified Network Associate (CCNA)
- Cisco — Issued August 2022

Certified Ethical Hacker (CEH) certification
- EC-Council — Issued August 2024

CompTIA Network+
- CompTIA — Issued January 2023

Linux Essentials Certification
- Linux Professional Institute (LPI), December 2024

ACHIEVEMENTS & HACKATHONS

Ranked in the top 5% out of 500 participants in a machine learning hackathon for my Real-time Chat Application project.

Won first prize for the best project in a renowned tech hackathon for my Sustainable Shopping Assistant project.

REFERENCE

Dr. Dip Nandi
Professor and Associate Dean
Faculty of Science and Technology
American International University-Bangladesh
Email id: dip.nandi@aiub.edu

MD Nazmul Hossain
Assistant Professor
Faculty of Science and Technology
American International University-Bangladesh
Email id: nazmul@aiub.edu