Sanzida Islam

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EDUCATION

Bachelor of Science in **IT**(Information Technology)
Institute of Information Technology (IIT), **Jahangirnagar University**
CGPA: 3.69/4.00

COMPETITIVE PROGRAMMING ACHIEVEMENT

❖ **Onsite Programming Contests:**
- Participated in ACM ICPC Dhaka Regional 2024, Team- JU_oyster.
- **18th** in National Girl's Programming Contest - NGPC 2022, Team- JU_Oyster.
- Participated in National Collegiate Programming Contest(NCPC)-2023, Team- JU_Oyster.
- **27th** Ada Lovelace National Girls' Programming Contest 2021, Team- Ju_Derinlerde?.
- **27th** in National Girl's Programming Contest - NGPC 2021, Team- JU_Electrify
- **23rd** Luna Shamsuddoha Girls In ICT Day Celebration - All Girls' Programming Contest 2023

❖ **Online Contests Rating:**
- **Codeforces** Rating: **1286** (max)
- **Codechef** Rating: **1609** (max)
- **Codeforces**: **1438** problems
- **LightOj**: **83** problems

❖ **Solved more than 1500 programming problems in various online judges.**
- **Codeforces**: **1438** problems
- **LightOj**: **83** problems
- **UVA**: **67** problems
- **Codechef**: **43** problems

- **UVA**: **67** problems
- **Codechef**: **43** problems

SKILLS

Programming Languages: C/C++ (Most fluent), Python(fluent), Java, HTML, CSS,PHP
Core Concepts: OOP, Data Structures, Algorithms, Machine Learning
Database: MySQL
Others: Git, Latex

THESIS & RESEARCH WORK

❖ **DREAM: A Novel Explainable Neural Network for Detecting Sleep Apnea Using Single-Lead ECG Signals**
- Pre-processing, segmentation, feature extraction, and feature selection techniques are applied to identify the most relevant features for implementing and evaluating the model on ECG signals.
- Coauthor: 3rd
- Status: Planned for submission to a Q1 journal.
- Used Technologies: Python, TensorFlow, Keras, ECG signals, Feature extraction, Machine learning techniques.

ACADEMIC PROJECTS

❖ **Heart Disease Prediction:**
- Heart disease prediction using supervised machine learning algorithms as well as an improved ensemble learning technique: Performance analysis & comparison.
- Github Link: heart-disease-prediction.git

❖ **Recycle Bin:**
- A recycle bin is a platform of selling and buying old products is built with HTML, CSS, Javascript and PHP.
- Github Link: recycle-bin.git

❖ **Admission Management System:**
- We built a student admission site with key features using HTML, CSS, JS, PHP, and MySQL.
- Github Link: admission-management-system.git