Fatema Tuz Zohra

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PROFILE

I am a recent graduate in Computer Science and Engineering from Rajshahi University of Engineering and Technology (RUET). I am highly passionate about problem-solving and exploring new technologies. With a strong foundation in programming, mathematics, and machine learning, I am eager to apply advanced coding skills with a commitment to excellence in a challenging role within the tech industry.

EDUCATION

2020 – 2025	**B.Sc. in Computer Science & Engineering** Rajshahi University of Engineering & Technology (RUET)	Rajshahi
2017 – 2019	**Higher Secondary Certificate (HSC)** Cantonment Public School and College, Rangpur	Rangpur
2009 – 2017	**Secondary School Certificate (SSC)** Rangpur Govt. Girls High School	

SKILLS

Programming Languages
C++, Python, Java

Web Development
HTML, CSS, JavaScript, PHP, React

Databases
MySQL, SQLite

Machine Learning & Deep Learning
Scikit-learn, TensorFlow, NumPy, Pandas, OpenCV

COMPETITIVE PROGRAMING

Codeforces
Pupil (Highest: 1391)
Solved 350+ problems

HackerRank
Solved 100+ problems

Onsite Contest
17th position at National Girls Programming Contest 2022 (2022)
Team Name: RUET_Scanline 2.0

PROJECTS

RUET Equipment Inventory Management System (REIMS)
Developed a web-based system for managing departmental lab inventories using HTML, CSS, JavaScript, PHP, and MySQL.

Weather Prediction Using Machine Learning
Built predictive models using Linear Regression and Decision Trees with Python, leveraging Pandas, NumPy, Scikit-learn, and Matplotlib for data processing and visualization.

Silent Mode Scheduler (Android App)
Created an Android application in Java that automatically switches between silent and ring modes based on user-defined schedules, utilizing AlarmManager and AudioManager APIs.

UNDERGRADUATE THESIS

Fast CU Partition Prediction in Versatile Video Encoding using DCT-Based Features
Working on a thesis focused on reducing encoding time in Versatile Video Coding (VVC) by predicting Coding Unit (CU) partitioning using Discrete Cosine Transform (DCT) features.