# 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
Rajshahi

**B.Sc. in Computer Science & Engineering**
Rajshahi University of Engineering & Technology (RUET)

2017 – 2019
Rangpur

**Higher Secondary Certificate (HSC)**
Cantonment Public School and College, 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

**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.