

# S.M. Shahriar

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## Education

**Chittagong University of Engineering and Technology (CUET)**

3 March 2022 – Present

*BSc in Electronics and Telecommunication Engineering*

- **CGPA:** 3.73/4.00 (up to 4th semester)
- **Award:** CUET Alumni Association Merit Award—Awarded for academic excellence (2023)

## Technical Skills

- **Languages:** Python, C, C++, MATLAB
- **Software and Tools:** MS Office (Word, Excel, PowerPoint), VSCode, PyCharm, GitHub, Jupyter Notebook, LaTeX, ADS, CST
- **Web Development:** HTML, CSS, PHP, MySQL
- **Machine Learning and AI:** Supervised Learning, Neural Networks, Model Optimization, TensorFlow, Keras, Natural Language Processing, Pytorch, Image Processing, Signal Processing, Flask
- **Data Analysis:** Pandas, Data Cleaning, Data Visualization (Matplotlib, Seaborn), Statistical Analysis

## Experience

**Instructor**

Chattogram, Bangladesh

**Unique Schooling (EdTech Company)**

April 2023–June 2024

- Conducted engaging online electronics classes as an instructor.

## Projects

**Smart Plot Generator**

2025 🔄 📄 🌐 📄

- Developed an interactive web application using Streamlit for dynamic CSV data visualization.
- Allows users to upload CSV files, select plot types, and apply custom color themes.
- Enables fast and flexible data exploration without writing code.

**Face Recognition & RFID-Based Smart Attendance System using Jetson Nano**

2025 🔄 📄 🌐 📄

- Employed MTCNN and OpenCV for accurate frontal face detection and bounding box generation to create face arrays.
- Implemented ResNet-18 for subject identification, enhancing prediction accuracy and robustness in dynamic environments.

**Deepfake Detection: A Convolutional Neural Network Approach**

2025 🔄 📄 🌐 📄

- Processed 200K+ deepfake images, tested on 3,000, with 85.92% accuracy in face classification.
- Used a multi-layer CNN for improved face detection and classification.

**Benign Prostate Hyperplasia (BPH) Detection using ResNet18-SVM**

2025 🔄 📄 🌐 📄

- Processed 94 BPH and 82 Normal subject images, augmented to 2,000 samples for robust training.
- Achieved 95.5% accuracy, recall, and F1-score by ResNet18 for feature extraction and SVM for classification.

**Ensemble Learning-Based Optimization of S11 Parameter in Microstrip Patch Antennas for Wi-Fi 7 Applications**

2025 🔄 📄 🌐 📄

- Proposed multiple machine learning approaches to optimize the S11 parameter of microstrip patch antennas tailored for Wi-Fi 7 and various application.

## EEG Data Analysis and Alcoholism Detection Using Machine Learning

2024    

- Analyzed EEG data and turned the signals into spectrograms to classify the subject as alcoholic or non-alcoholic.
- Designed a hybrid CNN-SVM model that reached over 90% accuracy in identifying subjects.

## Publications

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### Classification of Cancer from Breast Ultrasound Images using Vision Transformer

2025

*Undergraduate Conference on Intelligent Computing and Systems (UCICS 2025)*

## Awards & Achievements

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### Finalist (13th out of 108 teams)

Khulna, Bangladesh

*At the Datathon, a machine learning contest of KUET CSE Bitfest-2025*

2025

### Finalist

Worldwide

*IEEE Signal Processing Cup*

2025

### 1st Runner-up

Chattogram, Bangladesh

*Programming Hackathon hosted by the Department of ETE at CUET*

2023

### Kaggle Expert

 