TAPU CHANDRA BORMON

Dhaka, Bangladesh

📞 (+880) 195-2387780   ✉ tapu.chb99@gmail.com   in linkedin.com/in/tapuchb13   ⊙ github.com/Tapubormon

Education

Uttara University   **2019 − 2023**

Bachelor of Science in Computer Science and Engineering   *CGPA: 3.70 (out of 4.00)*

Research Experience

Research Assistant — Volunteer   **2023 − Present**

Supervisor: Md. Harun-Ar-Rashid, Senior Lecturer   *Uttara University, Bangladesh*

- Conducted literature review and assisted in research methodology design under supervisor guidance.
- Participated in experimental setup, data preprocessing, and quantitative result analysis.
- Contributed to manuscript preparation, review, and revision under supervision, supporting overall research quality.

Publications & Manuscripts

IoT-Based Remote Health Monitoring System for Medical Imaging Devices. [Accepted, Springer Nature ITSS-IoE 2025]

Arduino, Raspberry Pi, Python, IoT Protocols (MQTT/HTTP), RTMP, Cloud Storage, DICOM

- Contributed to transforming the initial project into a publishable research paper by restructuring the research framework, refining and articulating the methodology, drafting major sections of the manuscript, and preparing the complete version for successful conference submission as co-author.

Wavelet Packet Decomposition and Cross-Correlation Analysis for Improving ECG Signal Classification. [Under Review]

MATLAB, Python, MIT-BIH Database, Long-term database, ST Change Database

- Developed signal processing pipeline, implemented feature extraction using Wavelet Packet Decomposition (WPD), validated performance on benchmark datasets (MIT-BIH, LTST, European ST Change DB), and contributed as first-author.

Hybrid Benchmarking of Statistical and Neural Models for Multi-Class Bangla Emotion Classification. [in Preparation]

Python, Scikit-learn, TensorFlow, Keras, TF-IDF, CNN, Bi-LSTM, Bi-GRU

- Contributed to developing and refining the research methodology, structuring the manuscript, composing major sections of the paper, and preparing the final version for journal submission as co-author.

Projects

E-commerce Website | *React.js, Node.js, Express.js, Redux, MongoDB, PayPal API*   **Live Demo | GitHub**

- User authentication and role-based access.
- Shopping cart, order tracking, and secure payments.
- Admin dashboard for product and order management.

Real-time Chat Application | *Socket.IO, WebRTC, Node.js, Express.js, MongoDB*

- Private and group chat functionality.
- Voice and Video call functionality.
- Secure message storage and retrieval.

Financial Data Web Platform (Client Website) | *Node.js, Express.js, Forex API, EJS*

- User-friendly interface with responsive design.
- Live forex data integration using Forex API.
- Blog section for news and updates.
- Secure payment gateway integration.

Awards & Honors

- Dean's Honor Award, Uttara University, Department of Computer Science and Engineering, Dhaka, Bangladesh (2021)

Technical Skills

Languages: C, C++, Python, JavaScript (ES6+), MATLAB, SQL
Web Development: HTML5, CSS3, jQuery, React, Redux, Next.js, EJS, Bootstrap, Tailwind CSS, Vite, WebRTC, Socket.io
Backend & Databases: Node.js, Express.js, MongoDB, Mongoose, MySQL, RESTful APIs, JWT
AI & Machine Learning: Scikit-learn, TensorFlow, Keras, PyTorch, NumPy, Pandas, Matplotlib, NLP (DistilBERT), CNN
Tools & Platforms: Git, GitHub, Postman, Figma, VS Code, Render, npm
Others: Latex, Linux/Unix (terminal & scripting), Cybersecurity

Language Proficiency

IELTS Proficiency Level: B2

IELTS Overall Band Score: 6.5 (Listening: 7.5, Speaking: 6.5, Reading: 6.0, Writing: 6.0)

References

Md. Harun-Ar-Rashid
Senior Lecturer, Department of Computer Science and Engineering, Uttara University
Email: harashid@uttarauniversity.edu.bd

Md. Shafiul Alam Chowdhury
Associate Professor, Department of Computer Science and Engineering, Uttara University
Email: shafiul.cse@uttarauniversity.edu.bd