**Skills-**

* Language: Python, C
* Data Analysis: MATLAB, Scikit-learn, Keras
* Simulation: COMSOL, CST Studio Suite, NI Multisim,
* Simulink.
* Data visualization: Origin Pro, Matplotlib, Excel
* Web programming: HTML, CSS, WordPress
* Software: BioPac, Arduino
* Research Tools: EEGLAB, Mendeley Desktop

**Award and achievements**

* Dean’s List Award
* Technical Scholarship KUET

**Organizations-**

* **President** (Oct 2020 - Apr 2022), “Rajukan’s of KUET”, association of the students of Rajuk Uttara model college, Dhaka
* **Organizing Secretary** (Oct 2020 - Apr 2022), “Advanced BioEngineeringClub (ABC) of KUET.” Most anticipated club for Bio-engineering in KUET. Had the honor to lead and manage teams, projects and conduct events

**Voluntary experience-**

* Corporal (Aug 2014 - Apr 2015), Rajuk Uttara model college
* Prefect (June 2015 - Feb 2016), Rajuk Uttara model college
* Arranged workshop on “Insights of ECG”, ABC KUET
* Arranged workshop on “Mathematics for Engineering Research”, ABC KUET
* Arranged workshop on “ABC of Research”, ABC KUET
* Arranged seminar on “Science and Engineering Research for Humanity”, Biomedical Engineering Association, KUET

**EDUCATION-**

**B.Sc. (Biomedical Engineering)**

(March 2017- April-2022)

Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh.

CGPA: **3.57** (out of 4.00)

**H.S.C (Higher Secondary Certificate)**

Rajuk Uttara Model College, Dhaka-1230.

GPA- **5.00** (out of 5.00)

Year- 2016

**S.S.C (Secondary School Certificate)**

Uttara High School & College, Dhaka-1230.

GPA- **5.00** (out of 5.00)

Year- 2014

**Research Experience-**

**Research Group**

● Photonics Research Group, KUET

https://sites.google.com/eee.kuet.ac.bd/photonicsgroup kuet-org/home

● Bio Researcher Group, KUET

**Research Interest-**

• Signal Processing

• Brain Computer Interface

• Bio-Photonics

• Machine Learning

• Deep learning

• Simulation & Modeling

**Papers-**

* “Automatic Classification of COVID-19 from Chest X-Ray Image using Convolutional Neural Network” 2021 5th International Conference on Electrical Information and Communication Technology (EICT)/ Publisher-IEEE. Mar 16, 2022 [1 st Author]
* “Predictive Analysis for Risk of Stroke Using Machine Learning Techniques” 6 th International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering (IC4ME2)/ Publisher - IEEE · May 10, 2022 [3 rd Author]
* “Low-Cost Smart COVID-19 Patient Monitoring and Support System” 6 th International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering (IC4ME2)/ Publisher - IEEE · May 10, 2022 [1 st Author]

**Submitted Manuscripts-**

* “In Silico Performance Investigation of Nanoparticle Assisted Photo Thermal Ablation” Submitted in “Journal of Biological System” [Impact Factor: 1.82] [1 st Author]
* “Skin Melanoma Cancer Detection Using Convolutional Neural Network” Submitted in “1st International Conference on Information and Communication Technology for Development (ICICTD 2022)” [3 rd Author]
* “Epileptic Seizure Detection from EEG Signal Using ANNLSTM model” Submitted in “International Conference on Machine Intelligence and Emerging Technologies 2022 (MIET 2022)” [5 th Author]

**Projects-**

• Line Following Robot (March 2017 - Apr 2018)

• Smart Colorimetric Analysis for Telemedicine (Apr 2021- May2021)

• Video Conferencing Application for Telemedicine (Jun 2021- August 2021)

• Evolving a website Using the concept PACS, HIS, RIS (Sep 2021 - Nov 2021)

**Currently working papers-**

• EEG Acquisition and Emotion Detection Utilizing Machine Learning Approaches (Feb 2022- Present)

• Epilepsy Detection Utilizing CWT and convolutional neural network (Nov 2021 – Present)

• Micro strip patch antenna Design using CST studio suite (Mar 2022 – Present)

**Contact Info-**

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