

## S M Asaduzzaman

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### Work Experience

#### Research Manager

(January 2022 -Current)

##### Time research & innovation

- Lead my research team on several projects on IoT, Telemedicine, Machine learning, and Data Analysis.
- Work as project manager, create project proposal, sketch the initial idea and budget, pitch to investors and clients.
- Increased research output of team members through proper implementation of (add the tools/methods used to increase research output) which led us submitting the highest number of research papers in reputed journals and conferences.

#### Research Associate

(July 2021 - December 2021)

##### Time research & innovation

- Assisting the team leader in Writing the Research paper, Funding Application, Designing the IoT Product, Machine learning for Image processing and making the pitch deck for Government Authorities and Private investors.

#### Work-Based Learner

(December 2020 -June 2021)

##### Time research & innovation

- Implemented research procedure, (UI/UX) design and analyzed the market scenario for prototyping the new Product.

**Tools:** Google Collab, Microsoft Office, Google Suite, Jupyter Notebook, Power BI, Figma, Endnote, Heroku, GitHub

**Languages:** C++, Python, SQL

**Techniques:** Regression, Image Classification, Linear regression, Anomaly detection, Decision tree, Time Series Analysis, IoT

**Award:** Best Employee of TRI, Shining Star of TRI, Best Employee of Department in TRI

### SKILLS

**Analytics Tools:** Google Collab, Jupyter Notebook, PowerBI, Google Sheet, GitHub, TensorFlow, SPSS, Power BI

**Languages:** Python, C++, SQL, HTML, VLSI

**Techniques:** Data Scrapping, Data Preparation, Data Visualization, Machine Learning, UI/UX

### EDUCATION

#### Jahangirnagar University

Dhaka

Bachelor of Science in Electrical and Electronics Engineering

2022

- CGPA: Yet to be Published ;

#### American International University-Bangladesh (AIUB)

Dhaka

Bachelor of Science in Electrical and Electronics Engineering

2018

- CGPA: 3.96;

**Award:** Academic Scholarship; Dean's List; Dean's Award for Capstone Project; *Summa Cum Laude*

### PROJECTS

#### An Online-Based Diabetics prediction system that is able to forecast diabetes disease effectively /

(Skills: Python, Pandas, Numpy, Matplotlib Scikit Learn, Flask, Docker, Render) | [Website](#) (2023)

- Using Random Forrest machine learning model to predict Diabetes Considering the parameter and then displaying the prediction with infinite testing

#### Next-generation telemedicine health assisting Stethoscope For Early Detection of heart and Disease Predictor

(ANGTHAScope), IoT device /(Skills: C++, Python, Arduino, Raspberry Pi) (2021-On Going)

- This IoT Device is developed for measuring the Heart rate, lung sound, Oxygen level, and temperature of patients to detect the abnormality and predict the chances of Heart Disease and Lung disease.

#### Real-Time Sign And Speech Converter For Hearing-Impaired People

/(Skills: Python, CNN, Keras, Arduino, Raspberry Pi) (Capstone Project, 2018)

- A Bidirectional Communication System For Hearing-impaired people by using image processing and a VR module. The project was awarded for Dean's award for significant innovative ideas among 150 projects.

### PUBLICATIONS

1. "Analysing and Identifying COVID-19 Risk Factors using Machine Learning Algorithm with Smartphone Application,"
2. "An Efficient Sign Language Translator Device using Convolutional Neural Network and customized ROI segmentation,"