



# SARREHA TASMIN RIKTA

Researcher · App Developer  
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## EDUCATION

MAR 2024 – PRESENT

**SUN MOON UNIVERSITY**

M.SC. IN SMART INFORMATION AND COMMUNICATION ENGINEERING

*Project Focus: AI-based image processing and medical imaging*

AUG 2018 – SEP 2022

**DHAKA INTERNATIONAL UNIVERSITY**

B.SC. IN COMPUTER SCIENCE AND ENGINEERING

*Project and Thesis Title: Machine Learning-based Hybrid Stroke and Cancer Prediction  
Applications: A Predictive Analytics Approach*

## EXPERIENCE

MARCH 2024 – PRESENT

**RESEARCH ASSISTANT**, AIIP LAB, SUN MOON UNIVERSITY

Faculty of smart Information and Communication Engineering.

FEB 2022 – OCT 2022

**ASSISTANT RESEARCHER**, DHAKA UNIVERSITY

Dean, Faculty of Engineering and Technology, Dhaka University.

## PAPER AND PUBLICATIONS

### JOURNAL

1. Sarreha Tasmin Rikta, Khandaker Mohammad Mohi Uddin, Nitish Biswas, Rafid Mustafiz, Samrat Kumar Dey" XML-GBMLung: An explainable Machine Learning based Application for the Diagnosis of LungCancer", Journal of Pathology Informatics (2023), [link](#)
2. K.M.M. Uddin, N. Biswas, S.T. Rikta et al., XML-LightGBMDroid: A self-driven interactive mobile application utilizing explainable machine learning for breast cancer diagnosis, Engineering reports (2023), [link](#)
3. K.M.M. Uddin, N. Biswas, S.T. Rikta et al., Machine Learning-based Diagnosis of Breast Cancer Utilizing Feature Optimization Technique, Computer Methods and Programs in Biomedicine Update (2023), [link](#)
4. N. Biswas, K.M.M. Uddin, S.T. Rikta et al., A comparative analysis of machine learning classifiers for stroke prediction: A predictive analytics approach, Healthcare Analytics (2022), [link](#)

## CONFERENCE PAPER

5. H. M. H. Babu, K. M. M. Uddin, N. Biswas and S. T. Rikta, DNA Multiplier: A Design Architecture of a Multiplier Circuit Using DNA Molecules, London, United Kingdom. [link](#)

## PAPERS UNDER REVIEW

1. Sanjida Khaton, S T Rikta , Wonsang You, Khandaker Mohammad MohiUddin, "ENHANCING LUMPY SKIN DISEASE DETECTION THROUGH DATASET BALANCING WITH CYCLEGAN" Journal of Innovations in Systems and Software Engineering (Under Review).
2. N. Biswas, K.M.M. Uddin, S.T. Rikta et al., XML\_Phish: An Explainable Machine Learning Based Approach to Detect Phishing Website, International Journal of Information Management Data Insights (under review)

## SKILLS

<b>Programming Language</b>	JavaScript, Python, Dart, C.
<b>Machine Learning Framework</b>	TensorFlow, PyTorch
<b>Problem-Solving</b>	Solved more than 200 problems from URI, toph, and codeforces.
<b>Version Controlling System</b>	GitHub, Git.
<b>Text Processing</b>	Latex, Microsoft Office.
<b>Language</b>	Bengali, English, Hindi

## AWARD AND ACTIVITIES

- ✓ General Primary Government Scholarship Award by Education Board in 2007
- ✓ Member of Dhaka International University Programming Club.
- ✓ As an organizer of Mujib Borsho IT Carnival 2020, DIU.

## REFERENCES

1. **Prof. Wonsang You, Phd**
  - Professor, Department of Smart Information and Communication Engineering, Sun Moon University.
  - mail: [wyou@sunmoon.ac.kr](mailto:wyou@sunmoon.ac.kr)
2. **Md. Abdul Based, Research Fellow (NTNU, Norwegian)**
  - Professor, Department of Computer Science and Engineering, Dhaka International University.
  - mail: [based@diu.ac](mailto:based@diu.ac)
3. **Khandaker Mohammad Mohi Uddin**
  - Assistant Professor, Department of Computer Science and Engineering, Dhaka International University.
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