

Prosenjit Chakraborty

Amchara Para, 2 No Gainda, Rajasthali Upazila Sadar, Rajasthali-4540, Rangamati, Bangladesh.

LinkedIn: **Prosenjit Chakraborty** || GitHub: **prosenjit-ch**

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Qualification

Degree:	Master of Science (Engineering)
Field of Study:	Computer Science and Engineering
Period:	Ongoing
Institution:	Rangamati Science and Technology University
Website:	https://rmstu.ac.bd
Degree:	Bachelor of Science (Engineering)
Field of Study:	Computer Science and Engineering
Period:	2017 – 2020 (Final Examination held in 2023)
Institution:	Rangamati Science and Technology University
Website:	https://rmstu.ac.bd
Thesis:	“A Hybrid Approach for Bengali Sentence Validation” Supervisor: Juel Sikder Associate Professor, Department of Computer Science and Engineering, Rangamati Science and Technology University.
CGPA:	3.58 Out of 4

Research Assistant Experience

Research Assistant

Rangamati Science and Technology University (RMSTU CSE LAB)

- Collecting, analyzing, reviewing and summarizing research work
- Taking action to collect data, annotate it and analyze it.
- Using and Tuning state of art Machine Learning and Deep Learning algorithms
- Performing different testing processes for evaluation

Publications

- [Bengali handwritten equation solving system](#)
[Journal of King Saud University-Computer and Information Sciences](#) || Q1 Journal
- **A Hybrid Approach for Bengali Sentence Validation** Accepted (In press)
[Artificial Intelligence Review](#) || Q1 Journal
- **A Machine Learning Ensemble Approach For Understanding The Consumer's Degree of Satisfaction**
[EISBG 2024](#) (ACCEPTED)
- **Deep Learning-Based Breast Cancer Diagnosis**
[Journal of Cancer Survivorship](#) || Q1 Journal (Under Review)
- **Deforestation Detection in Rangamati Using A Customized UNet**
[Journal of Computational Science](#) || Q1 Journal (Under Review)

Key Projects

Machine Learning-Based Language Classification of Multilingual Content Written in Bengali (Research Project)

Supervisor: Juel Sikder, Associate Professor, Department of Computer Science and Engineering, Rangamati Science and Technology University (RMSTU).

Period: Aug 2022 – Jan 2023

Objective: Classify the original language (such as Assamese, Chakma, Kokborok, Chittagonian, Sylheti and Bengali) of the content written using the Bengali alphabet.

Link: [GitHub](#)

Deforestation Detection System for Rangamati Hill Tracks (Research Project)

Project Director: Juel Sikder, Associate Professor, Department of Computer Science and Engineering, RMSTU

Period: Jan 2023 – May 2023

Objective: Detect and calculate the deforestation area from the given images of Chittagong Hill Tracks.

Link: [GitHub](#)

Automated Recommender System (Content Based, Collaborative and Hybrid)

Objective: Suggest personalized content or items to users based on their preferences, either by analyzing the characteristics of the items.

Link: [GitHub](#)

Information Extraction from Image Using Gemini

Objective: Information extraction from the image the invoice and medical prescriptions.

Link: [GitHub](#).

Bengali Handwritten Sentence Validation (Research Project)

Supervisor: Juel Sikder, Associate Professor, Department of Computer Science and Engineering, RMSTU

Period: 2023 – Current

Objective: Classify the Bengali handwritten sentences based on their correctness.

Chakma Alphabet (Ajha Path) Recognition System (Research Project)

Supervisor: Juel Sikder, Associate Professor, Department of Computer Science and Engineering, RMSTU

Period: Jan 2024 – Current

Objective: Develop a functional Chakma alphabet recognition system.

Bengali Document Classification (Course Project)

Course: Machine Learning Lab

Period: Aug 2022 – Sep 2022

Objective: Classify the category of the document written in Bengali.

Technical Skills

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|--------------------|--------------------|-------------------|----------------|
| • C | • Data Science | • Computer Vision | • Scikit-Learn |
| • Python | • Pytorch | • NLP | • Git |
| • Machine Learning | • Tensorflow | • Numpy | • HTML |
| • Deep Learning | • Image Processing | • Pandas | • CSS |

Extra-curricular activities, awards and achievements

- Former Joint Convener of RMSTU Computer Club
- RMSTU Computer Club Election Management at Rangamati Science and Technology University.
- Volunteer of RMSTU Computer Club
- Volunteer of Badhan, RMSTU Unit
- Winner of Gaming Competition in “RMSTU Technological Festival 2022”
- Scholarship from Chittagong Hill Tracks Development Board in 2020, 2021, 2022 and 2023
- Scholarship from Rangamati Science and Technology University in 2019, 2020, 2021, 2022 and 2023

Seminar and Workshop

- Seminar on "Modern Trends For Research Methodology", Rangamati Science and Technology University, Rangamati-4500, Bangladesh, November 9, 2022
- Workshop on "Data mining with 'R' Machine Learning", Rangamati Science and Technology University, Rangamati-4500, Bangladesh, April 25, 2019

References

Juel Sikder (Undergraduate Thesis Supervisor)
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