

Curriculum vitae

Personal Information

Name: Prosenjit Chakraborty
Father's Name: Late Ashit Kumar Chakraborty
Mother's Name: Dipti Chakraborty
Address: Amcharapara, No: 2 Gainda, Rajasthali Upazila Sadar, Rajasthali-4540, Rangamati.
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Qualification

Degree: Master of Science (Engineering)
Field of Study: Computer Science and Engineering
Period: Ongoing (Last Semester)
Institution: Rangamati Science and Technology University
Website: <https://rmstu.ac.bd>
CGPA: 3.88 Out of 4 (First Semester)

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

- 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

- [A Hybrid Approach for Bengali Sentence Validation](#)
[Artificial Intelligence Review](#) || Q1 Journal
- [Bengali Handwritten Equation Solving System](#)
[Journal of King Saud University-Computer and Information Sciences](#) || Q1 Journal
- [Heartbeat Sound Analysis: Integrating Deep Learning Models for Classification](#)
[ICECET-2024](#) || Sydney, Australia
- **A Machine Learning Ensemble Approach For Understanding The Consumer's Degree of Satisfaction**
[EISBG 2024](#) (ACCEPTED)
- **Deep Learning-Based Breast Cancer Diagnosis**
[Informatics in Medicine Unlocked](#) || Q2 Journal (Under Review)
- **Deforestation Detection in Rangamati Using A Customized UNet**
[Journal of Ecological Informatics](#) || 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.

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.

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.

Information Extraction from Image Using Gemini

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

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

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

Period: July 2024 – Current

Objective: Develop a functional Chakma alphabet recognition system.

Technical Skills

- | | | | |
|--------------------|--------------------|-------------------|-------------|
| • C | • Deep Learning | • Computer Vision | • Git |
| • Python | • Tensorflow | • NLP | • HTML, CSS |
| • Machine Learning | • Image Processing | | |

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

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Tanjim Mahmud

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