Prosenjit Chakraborty

Amchara Para, 2 No Gainda, Rajasthali Upazila Sadar, Rajasthali-4540, Rangamati, Bangladesh. LinkedIn: Prosenjit Chakraborty | GitHub: prosenjit-chakrabortyrmstu@gmail.com Contact No: +8801863259593

Qualification

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

■ 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.

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, Demo

Information Extraction from Image Using Gemini

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

Link: GitHub, Demo

Interactive Map Dashboard for Detailed Location Analysis

Objective: An interactive map dashboard that allows users to explore and analyze specific areas by selecting square or rectangular regions on a high-resolution map.

Link: GitHub, Demo

Virtual Research Assistant for Research Paper Analysis

Objective: To create a Virtual Research Assistant that helps users easily upload research papers, ask questions, and receive accurate answers, leveraging Gemini Pro for efficient analysis and insights.

Link: GitHub, Demo

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.

Technical Skills

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• Python

Machine Learning

Deep Learning

Data Science

Pytorch

Tensorflow

Image Processing

• Computer Vision

• NLP

• Numpy

• Pandas

Scikit-Learn

• Git

• HTML

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)

Associate Professor,

Department of Computer Science and Engineering, Rangamati Science and Technology University, Rangamati, Bangladesh Phone: +8801833053416

Email: juelsikder48@gmail.com, juelsikder@rmstu.ac.bd

Mithun Dutta

Assistant Professor,

Department of Computer Science and Engineering, Rangamati Science and Technology University, Rangamati, Bangladesh

Phone: +8801672735373 Email: mithun@rmstu.ac.bd