

MD RASEL UDDIN

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Career Objective

I am a self-motivated AI enthusiast who loves to solve problems. Always been interested in learning something new and challenging and want to build a career in an AI-related field such as Data Science, or machine learning, and I want to do research in AI.

Education

University of Information Technology and Sciences	Dhaka-1212, Bangladesh
Bachelor of Science in Computer Science and Engineering	01. 2019 – 02.2023
CGPA: 3.71 on a scale of 4.00 (156 Credit)	

Selected Professional Training Courses

Web Development: Taken paid courses learned PHP, MySQL, HTML, CSS, JavaScript, JQuery

Research Fundamentals: Taken online course in 2020. Research basics and methodology were taught.

Big Data: A LICT training project. Learned basics of big data and its tools like Hadoop.

IoT: Bangladesh govt. funded online training. Fundamental knowledge of IoT and Arduino

Skills

Online Programming Platforms :	beecrowd (Solved 160+ problems, BEE ID: 309888), Codeforces (Handle: russell_harun) etc.
Expertise :	Programming, Web Development, Technical Writing
Programming languages :	Python, C++, C, PHP
Tools :	Python Ecosystem (TensorFlow, PyTorch, pandas, NumPy...), Latex, Jupyter Notebook

Selected Undergraduate Projects

- **Emotion Detection from Text:** Twitter English posts can be retrieved by this system and then classification of 8 types of emotions using logistic regression. Another transformers-based pretrained model was developed to compare performance between the models. [Link](#)
- **Shipping Agent Project Using PHP MySQL:** A software to post advertisements, and comment with the admin panel. [Link](#)
- **Lite Apps Subscribing Android App:** Used Java to easily subscribe to Value Added Services (VAS) of BD mobile phone operators. [Link](#)

Research Experience

Rising Research Lab	Computer Vision
Research Assistant	Spring and Fall 2022
● Constructed a large and novel primary image dataset of Bengali Sign Language in the university research lab.	

- Developed a CNN-based model and pretrained transfer learning-based model to recognize the Bengali static sign from images.

Undergraduate Thesis

NLP, July 2022–July 2023

Title: Towards Bengali Natural Language and Empathetic Response Generation Using Transformers.

- Comprehensive review of Bengali Natural Language Generation (BNLG) literature
- Construction of a noble, larger, and moderated corpus of Bengali empathic conversations
- Development and implementation of a transformer-based model for generating empathic responses in Bengali

Volunteer Research Collaboration

- **ESRO-BD**: A research group. Worked as a volunteer researcher who research related to climate change. I contributed by analyzing data using machine learning algorithms for 5–6 months.
- **VMRL**: A collaborative research group with other Bangladeshi universities. I have mainly worked with computer vision for 3–4 months.

Publications

1. MM Islam, **MR Uddin**, MJ Ferdous, S Akter, MN Akhtar. BdSLW-11: Dataset of Bangladeshi sign language words for recognizing 11 daily useful BdSL words. Data in Brief 45, 108747, 2022.
2. MM Islam, **MR Uddin**, MN AKhtar, KMR Alam. Recognizing multiclass Static Sign Language words for deaf and dumb people of Bangladesh based on transfer learning techniques. Informatics in Medicine Unlocked 33, 101077, 2022.
3. **Md Rasel Uddin**. Machine-Learning based prediction to control COVID-19 pandemic. UITs Journal of Science, Volume 8, Issue 1, 2023..
4. Creating Multiclass Bangladeshi Sign Word Language for Deaf & Dumb people and Recognizing using Deep CNN Techniques. Md Rasel Uddin. (Under Review)
5. BengaliEmpatheticConversationsCorpus: A Comprehensive Bengali Language Dataset for Mental Health Counseling
Md Rasel Uddin, Md Mijanur Rahman, Al-Imtiaz (In Preparation)
6. Bengali Natural Language Generation: A Systematic Literature Review.
Md Rasel Uddin, Md Mijanur Rahman, Al-Imtiaz. (To be Submitted)

Leadership Experience

Be Researcher BD	: A research platform for young researchers. Learning and guiding students into research as a Campus Ambassador. I have been a campus ambassador for more than 2 years.
UITs Research Hub	: Senior executive. This research group works with students on research on campus.
BD Apps	: As a campus ambassador of this platform, I organized seminars, and workshops, and attended hackathons, and mores to encourage students into app development for social benefits.