

Md. Abdur Rakib Mollah

Machine Learning Enthusiast | Problem solver

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Summary

I am a Computer Science & Engineering student at Rajshahi University of Engineering & Technology, right now in my final semester. Alongside my studies, I was actively engaged in organizations to enhance my social skills. I have experience in web-based projects and contest programming, but my interests have shifted. Currently my focus is on expanding my knowledge in Web Scraping, Data Mining, Data Analysis, Machine Learning and Deep Learning. This interest has led me into Kaggle and I eventually became a datasets expert there. Additionally, I conducted research on Computer Vision domain which was accepted for publication at a well reputed conference. I am doing my thesis on using GPT-2 and BERT language models for Bangla text generation.

Education

Rajshahi University of Engineering and Technology (RUET)

Rajshahi

B.SC IN COMPUTER SCIENCE AND ENGINEERING

Jan 2018 - Aug 2023 (Expected)

- CGPA: 2.94/4.0 (Upto 6th semester)

Ishwardi Govt. College

Ishwardi, Pabna

HSC, SCIENCE, 2017

Jun 2015 - May 2017

- GPA: 5.00

Ikkshu Gabeshawana High School

Ishwardi, Pabna

SSC, SCIENCE, 2015

Jan 2010 - May 2015

- GPA: 5.00

Research Work

An Ensemble Approach for Identification of Distracted Driver by Implementing Transfer Learned Deep CNN Architectures.

ICCIT, 2022

PUBLISHED HERE 

Dec 2022

- The research work mainly improvises and proposes ensembling of MobileNet and DenseNet121 for classification of car driver's images taken through dashcam to check whether the driver is distracted while driving.
- It was presented at 25th International Conference on Computer and Information Technology (ICCIT) on Dec 17, 2022.

Thesis: A comprehensive comparison for generation of Bangla Literature Texts by Fine-tuning Pre-trained GPT-2 and BERT.

WORK IN PROGRESS

- The research work attempts to generate Bangla texts with GPT-2 and BERT. And draws a comparison whether Masked Language Modelling or Causal Modelling is better for generating Bangla texts.
- The challenges of the research are to create and preprocess a dataset for Bangla texts, and to conduct the fine-tuning within available GPU limit.

Skills

Languages C++, C, Python, Java, HTML, CSS, Javascript

Database MySQL, PostgreSQL

Python Tools Numpy, Pandas, Scikit Learn, Matplotlib, Plotly, Seaborn, Beautifulsoup

NLP NLTK, Transformers, GPT-2, BERT, RNN-LSTM

Computer Vision OpenCV, Tensorflow, Keras, Transfer Learning, Augmentation

Experience

Kaggle Expert

[kaggle.com/abdurakibmollah](https://www.kaggle.com/abdurakibmollah)

DATASET, DISCUSSION(2X)

Feb 2023

- Started using kaggle last year to engage in the larger community of machine learning enthusiasts and accelerate my own research work.
- Learnt several tools and techniques specially web scraping to create custom datasets and eventually became a dataset expert.

Research Assistance

PART OF ACADEMIC PROJECT

CSE, RUET

Jan 2022 - Jul 2022

- Worked on a research paper in my 6th semester under the supervision of my respected teachers, it was later published.
- This introduced me to machine learning, and motivated me work towards several other projects in the domain on my own.

Problem Solving

Codeforces

SOLVED 300+ PROBLEMS, ATTENDED 50+ RATED CONTESTS

- Solved problems involving dynamic programming, data structures, greedy, number theory etc.
- Profile links: 01 [↗](#) and 02 [↗](#)

Others

LEETCODE, CODECHEF

- Profile links: Codechef [↗](#) and Leetcode [↗](#)

Programming Contests

INTRA-UNIVERSITY AND NATIONAL

- 19th at RUET GyanJam 2018 out of 48 teams. [↗](#)
- 31st at RUET GyanJam 2019 out of 72 teams. [↗](#)
- 703rd at ICPC Dhaka Regional Online Preliminary out of 1324 teams. [↗](#)

Projects

Result Calculation System with NetBeans Calculated the result of CSE students with CGPA updating in each semester. The complete project is uploaded here. [↗](#)

Live Weather Forecast with Django Integrated a public API with the project to access weather data of any place in the world. The complete project is uploaded here. [↗](#)

Line Follower Robot using Arduino UNO Made a line follower robot as part of peripherals and interfacings project. The project is uploaded here. [↗](#)

Distracted Driver Detection with Jupyter Notebook The work ensembles two CNN models for classification of images on state farm dataset from Kaggle. The notebook is available here. [↗](#)

Bangla Text Generation using GPT-2 with Jupyter Notebook The work attempts to generate Bangla text with GPT-2. The notebook is available here. [↗](#)

Certifications

April 2023 **NLP**, Natural Language Processing with Classification and Vector Spaces. [↗](#)

Coursera

May 2023 **Machine Learning**, Machine Learning with Python [↗](#)

Freecodecamp

Extracurricular Affiliations

Pabna District Association

ASSISTANT STUDENT CO-ORDINATOR

Jan 2019 - Jan 2020

- As a student co-ordinator my responsibility entailed arranging sports and other co-curricular programs for the students.

Radio RUET

SENIOR PRODUCTION EXECUTIVE

May 2021 - Oct 2022

- Was involved in planning & execution of several shows and gained management experience.

Lexis

WRITER AND EDITOR

Jan 2020 - Jul 2020

- Wrote and edited several articles about modern technologies.