Rakib Hossain **Rifat**

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About Me

Looking for opportunities to build my career in software industry or in machine learning sector that would help me in achieving greater practical excellence through a continuous learning process, perseverance, hardworking nature and good communication skills, which will help me to contribute for the growth of the organization.

Experience

💼 **Trainee Officer**

AB Bank

08 September 2022 - Present

Responsibilities:

- ✔ Work as a in house developer in IT Division.
- ✔ Design and develop internal applications as per requirement.
- ✔ provide support to branch officials.
- ✔ provide training to branch officials.

💼 **Machine Learning Engineer**

Polyfins Technology Inc

01 September 2021 - 06 September 2022

Responsibilities:

- ✔ Study and transform data science prototypes.
- ✔ Design machine learning systems.
- ✔ Research and implement appropriate ML algorithms and tools.
- ✔ Develop machine learning applications according to requirements.
- ✔ Select appropriate datasets and data representation methods.
- ✔ Perform statistical analysis and fine-tuning using test results.
- ✔ Train, evaluate, and deploy AI systems when necessary.
- ✔ Extend existing ML libraries and frameworks.
- ✔ Keep abreast of developments in the field.

Education

🎓 **Masters of Science (MSc.) in Computer Science and Engineering (Ongoing)**

Brac University   CGPA: 4.00 out of 4.00 (12 Credit)

🎓 **Bachelor of Science (BSc.) in Computer Science and Engineering**

Ahsanullah University of Science and Technology

2016-2021   CGPA: 3.386 out of 4.00

🎓 **Higher Secondary Certificate (HSC)**

Dhaka City College

2016   GPA: 4.83 out of 5.00

🎓 **Secondary School Certificate (SSC)**

Ideal School and College

2014   GPA: 5.00 out of 5.00

Publications Thesis

📄 **A Comparative Study on Bengali Speech Sentiment Analysis Based on Audio Data**

Abanti Chakraborty Shruti, **Rakib Hossain Rifat**, Marufa Kamal and Md. Golam Rabiul Alam.

Big Data and Smart Computing, Jeju, Korea 2023, accepted for publication.

📄 **Multi-criteria Decision Theoritic Approach for Tour Package Selection using Fuzzy AHP and TOPSIS Methods: A Case Study on Cox's Bazar**

Marufa Kamal,**Rakib Hossain Rifat**, Abanti Chakraborty Shruti and Md. Golam Rabiul Alam. *IEEE 2023 8th International Conference for Convergence in Technology (I2CT),Pune, Maharashtra, India, accepted for publication.*

📄 **Facial Expression Recognition: A Comparison on Various Aspects**

It was my undergraduation thesis. This study aims to simplify the facial expression recognition system by using custom CNN architecture, this system can identify seven facial expressions (Fear, Sad, Neutral, Surprise, Angry, Disgust, Happy) and for this, we have used multiple custom CNN architecture and transfer learning models. Using two different datasets, we have compared them between 8 custom CNN models and 3 transfer learning models.

Projects ⬀

💻 **Tour Package Recommendation System in Cox's Bazar Using TOPSIS and Fuzzy AHP**

In this Academic project , I have made my contributions in building a recommendation system using TOPSIS and Fuzzy AHP.

Language: Python   Tools: Google Colab

💻 **A Comparative Study on Bengali Speech Sentiment Analysis Using Machine Learning and CNN Models**

In this Academic project , I have made my contributions in creating A Comparative Study on Bengali Speech Sentiment Analysis Using Machine Learning and CNN Models .

Language: Python   Tools: Google Colab

💻 **Eczema Severity Score Prediction Using Deep Learning Techniques**

In this project of Polyfins Technology Inc, I have made my contributions in predicting Eczema severity score from Images.

Language: Python   Tools: Google Colab

💻 **Body Part Segmentation And Separation From Full Body Image**

In this project of Polyfins Technology Inc, I have made my contributions in creating a pipeline that can segment and separate full body image into different part.

Language: Python   Tools: Google Colab

💻 **Image Quality Assessment Using Deep Learning Techniques**

In this project of Polyfins Technology Inc, I have made my contributions in Image Quality Assessment.

Language: Python   Tools: Google Colab

💻 **"FixMatch: Simplifying Semi-Supervised Learning with Consistency and Confidence" Google Colab implementation**

This implementation is done for Multiclass Classification, Multi Label Classification and Multi output Classification.

Language: Python   Tools: Google Colab

💻 **SimCLR A Simple Framework for Contrastive Learning of Visual Representations**

Google Colab implementation of SimCLR using pytorch

Language: Python   Tools: Google Colab

💻 **Harassment Detection from Social Media Bangla Comments using Deep Learning**

A system to identify harassment from the social media Bangla comments

Language: Python   Tools: Google Colab

💻 **Gender Detection From Bangla Handwritten Images**

Gender Detection From Bangla Handwritten Images using Logistic Regression and Deep Neural Network

Language: Python   Tools: Google Colab

💻 **Bengali Handwritten Digits Classification**

Bengali handwritten digits classification from image using Logistic Regression and Deep Neural Network

Language: Python   Tools: Google Colab

💻 **Face Mask Detection**

A binary classification model that can classify some one using mask or not.

Language: Python   Tools: Google Colab

💻 **Pneumonia X-ray Detection**

This model can detect if there is any abnormality in chest X-ray image.

Language: Python   Tools: Google Colab

💻 **Handwritten Digits Classification**

This model can detect handwritten digits from Image.

Language: Python   Tools: Google Colab

💻 **Audio Book Using Python**

Python Desktop application that can read PDF.

Language: Python   Tools: VS code

💻 **Production Prediction**

Using Distributed database system it can predict loss/profit and production.

Language: PL/SQL   Tools: SQL++

💻 **Smart Home**

A hardware project

Language: Arduino   Tools: Arduino IDE

Chaldaldotcom
A E-commerce website
Language: PHP, HTML, CSS, JavaScript   Framework: Bootstrap   Tools: Sublime Text

Mobile Financial Service
A database project that contains mobile financial service features
Language: Java , MSSQL   Tools: Netbeans

The Canteen
Android Application for ordering food
Language: Java, XML   Tools : Android Studio

Technical Skills

- **Programming Languages: Python**, C, C++ , Java, MySQL, PHP, SqlLite, PL/SQL
- **Machine Learning,Deep Learning**
- **Libraries:** Tensorflow,Keras,Pytorch,Poutyne
- **MLOps:** Tensorboard, Mlflow, Wandb
- **Operating System:** Windows, Ubuntu
- **Designing Tools:** HTML, CSS
- **IDE:**VS code, CodeBlocks, NetBeans, PyCharm, Android Studio, MS Visual Studio, Arduino, MATLAB, Proteus, MS SQL Server, Sublime Text, emu8086
- **Others:** GitHub,Microsoft Office

Personal Skills

- **Language:** Fluent Bangla, English.
- Hardworking personality.
- Always eager to learn new things.
- Highly comfortable working in a group or independently.

Certifications

- Problem Solving (Basic) from HackerRank.
- Python (Basic) from HackerRank.
- SQL (Intermediate) from HackerRank.
- Deep learning specialization from Coursera.
- DeepLearning.AI TensorFlow Developer from Deeplearning.ai on Coursera.
- Cleaning Data in Python from Datacamp.
- Introduction to Importing Data in Python from Datacamp.
- Introduction to Data Science in Python from Datacamp.

Extra curricular

- **Mentor: DeepLearning.AI TensorFlow Developer Professional Certificate Specialization at Deep Learning.AI On Coursera**
- **Mentor: TensorFlow: Data and Deployment Specialization at Deep Learning.AI On Coursera**
- Former Vice President at AUST Blood Donation Club
- Former General Secretary at Ideal Science And Technology Aiming Research Council.

Reference

Mr. Md. Khairul Hasan
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