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:

- Design and develop internal applications.
- provide support to branch.

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 (6 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

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.

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

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.

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.

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 and Alpha Tester at Deep Learning.AI**
- Former Vice President at AUST Blood Donation Club
- Former General Secretary at Ideal Science And Technology Aiming Research Council.

Reference

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