



Md. Farhadul Islam

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🐙 farhad324 id 0000-0003-3249-4490 R⁶ Md. Farhadul Islam 📺 Farhadul Islam

🎓 EDUCATION

09/2019 – Present **Bachelor of Science in Computer Science** Dhaka, Bangladesh
BRAC University [🔗](#)
CGPA: 3.84, Credits Completed: 105

📁 PROFESSIONAL EXPERIENCE

02/2022 – Present **Student Tutor** Dhaka, Bangladesh
BRAC University [🔗](#)
Course(s):
• **CSE221** - Algorithms (Summer 2022)
• **STA101** - Introduction To Statistics (Spring 2022)
School of Data & Sciences

03/2021 – Present **Undergraduate Research Assistant**
Supervisor(s): Jannatun Noor, Meem Arafat Manab
Field: Deep Learning

🧠 SKILLS

OOP, Data Structures, Algorithms

Python, Java, C, C++

Simulation & Modeling

SciPy, SimPy, SymPy

Machine Learning/Deep Learning

Tensorflow/Keras,
ScikitLearn, OpenCV,
NLTK

Web Scraping

BeautifulSoup

Database Management System

MySQL

Data Analysis, Management & Visualization

NumPy, Pandas,
Matplotlib, Seaborn


Backend Web Development

Django




Basic Robotics

Arduino (C++)

PUBLICATIONS

- 2022 **Note: Plant Leaf Disease Network (PLeaD-Net): Identifying Plant Leaf Diseases through Leveraging Limited-Resource Deep Convolutional Neural Network** 
ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS)(COMPASS '22), Seattle, WA, USA.
Authors: Joyanta Jyoti Mondal, **Md. Farhadul Islam**, Sarah Zabeen, A. B. M. Alim Al Islam, and Jannatun Noor.
Impact Factor: 2.81
DOI: <https://doi.org/10.1145/3530190.3534844>
- 2022 **Monte Carlo Dropout for Uncertainty Analysis and ECG Trace Image Classification***
S+SSPR 2022: IAPR Joint International Workshops on Statistical Techniques in Pattern Recognition (SPR 2022) and Structural and Syntactic Pattern Recognition (SSPR 2022), Montreal, Canada.
Authors: **Md. Farhadul Islam**, Sarah Zabeen, Md Humaion Kabir Mehedi, Shadab Iqbal, and Annajiat Alim Rasel.
*Accepted, yet to be published.
- 2022 **Diagnosis of Autism Spectrum Disorder Through Eye Movement Tracking Using Deep Learning***
International Conference on Information and Communication Technology for Development (ICICTD) 2022, Khulna, Bangladesh.
Authors: Nasirul Mumenin, **Md. Farhadul Islam**, Md. Reasad Zaman Chowdhury, Mohammad Abu Yousuf.
*Accepted, yet to be published.

PROJECTS

- 2022 **Bangladesh Solar Irradiation Prediction Using Stacked LSTM** 
Single Project
Data Collected from NSRDB, Used Lightweight Stacked LSTM Model to Predict GHI from Time Series (2018-2020) Data. Tensorflow/Kears was used.
- 2022 **Skin Cancer Diagnosis Using Deep Convolutional Neural Network** 
Group Project
CSE438 - Applied Data Science for Practitioners Project. Got the highest grade for this project. Used Tensorflow/Keras, Scikit-Learn for ML tasks.
- 2022 **Malware Classification using Deep CNN on Maling Dataset** 
Single Project
Achieved high accuracy with a CNN model made from scratch. Tensorflow/Keras was used. Model was developed focusing on classifying any type of malware attack images.



2021	Monte Carlo Dropout for Uncertainty Analysis on California House Prices Dataset ↗ <i>Single Project</i> CSE474 - Simulation and Modeling Project. Analysis on how Feature Vectors can affect the uncertainty of an ANN model.
2021	Brain Tumor Detection from MRI Images using CNN ↗ <i>Single Project</i> Classified Tumor and Non-Tumor Data, using CNN, achieved high accuracy. Tensorflow/Keras was used for this task.
2021	Auto Chloro - A Plant Disease Classifier & Remedies Provider in Bangla ↗ <i>Group Project</i> 2nd Runner up in Project Tech Tussle by IEEE Computer Society BRACU Student Chapter. Tensorflow/Keras was used for DL, EasyGUI for GUI.
2021	Conference Management System <i>Group Project</i> CSE370 - Database Project. For Backend Development Django was used and Used BeautifulSoup to scrape conference data. For DBMS, MySQL was used.
2020	AirDraw-n-Match-A-Webcam-Paint-Digit-Recognition-Program ↗ <i>Single Project</i> One of the winners in Skill Showcasing - R@D!X (Radix) by BRAC University Computer Club. Used Tensorflow/Keras, OpenCV, EasyGUI for developing the whole project.
2020	NESARC Data Analysis, Management & Visualization ↗ <i>Single Project</i> Coursera Course Project. Analysis on "How Depression Affects Diet and Lifestyle".
In Progress	AirWire: Predicting Air Quality Index from Sky Images <i>Group Project</i> Responsible for Machine Learning tasks, developed TFLite version for the project's mobile app. Tensorflow/Keras, TFLite, Scikit-Learn was used.



ONLINE COURSE CERTIFICATIONS

2021	DeepLearning.AI Tensorflow Developer ↗ <i>DeepLearning.AI</i>	Coursera
2021	AI for Medicine ↗ <i>DeepLearning.AI</i>	Coursera
2021	Machine Learning Fundamentals with Python Track ↗ <i>DataCamp</i>	DataCamp

PRESENTATIONS & LECTURES

- 2021 **Identification of Plant Leaf Diseases using Deep Convolutional Neural Network with Less Computational Power (Poster Presentation)** 
8th International Conference on Networking, Systems and Security (NSysS 2021)
Authors: Joyanta Jyoti Mondal, **Md. Farhadul Islam**, Sarah Zabeen, A. B. M. Alim Al Islam, and Jannatun Noor.
- 2022 **Lecture on Monte Carlo Simulations** 
CSE474 - Simulation & Modeling, BRAC University
Invitation from the course instructor to take a class on Monte Carlo Simulations.


AWARDS/ACHEIVEMENTS

- 2020 – Present **Merit Based Scholarship**
Awarded for maintaining high CGPA. Awarded the scholarship for 5 semesters. Got upto 50% scholarship, and 10% at least.
- 2021 **Winner – Skill Showcasing**
Built a program where you can draw something without a keyboard or a mouse. It does not end here, it will give a random integer to draw, the Neural Network will predict the digit that you drew. The whole program works like a game.
- 2021 **3rd Place – Project Showcasing**
IEEE Project Tech Tussle 2021 sponsored by Global Brand
Team Lead, and responsible for ML development. Built a framework to classify plant disease & provide remedies. The GUI is based on Bangla Language keeping in mind that, our primary target is to create an application to predict plant diseases and provide remedies for the Bangladeshi people.
- 2020 **Top 10 – Idea Presentation**
Idea Competition – BUP MindExperia 2020
9th Position in the idea contest. Leading the team and proposed the idea of Covid19 Tracker and Prediction focusing on Bangladesh.

CLUBS

Robotics Club of BRAC University – ROBU

Secretary of Research & Project Management

- Contest organizing, Rule Books, Guiding Freshers. Moreover, prepared videos on Basics of Robotics for new comers, which is available on YouTube.
- Recognition Certificate 

Dhaka,
Bangladesh

LANGUAGES

English

Full Working Proficiency

Bengali

Full Working Proficiency

French

Beginner

Hindi

Conversational

INTERESTS

Macro Photography

Travelling

Action Figure Collecting

Coin Collecting

Green Energy

Social Development Goals

Animal Welfare

REFERENCES

Meem Arafat Manab, Lecturer, Brac University

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Jannatun Noor, Lecturer, Brac University

jannatun.noor@bracu.ac.bd