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Education

Brac University Bangladesh

Bachelor of Science in Computer Science and Engineering

2017 - 2021

• CGPA: 3.87/4.0

 Undergraduate Thesis: Facial Expression Recognition: Convolutional Attentional Masking Network and Ensemble Approach

Supervisor: Md. Hasanul Kabir, PhD. Co-Supervisor: Rasif Ajwad

Experience

Undergraduate Teaching Assistant

Jan'20 - May'21

Programming Language I (Structured Programming) & II (Object Oriented Programming) Java, Python

• Attended Lab Classes and assisted the Faculty Members to conduct the Classes.

- Provided 15 Hours / Week as Consultation Hours for Students and assisted them with Problem Solving and Exam Preparation.
- Conducted in-person, online and instant tutor appointment options to accommodate student schedule.

Machine Learning Engineer

July'21 - Present

Apurba Technology Ltd.

- Currently working on Bengali OCR recognition using Computer Vision
- · Conducted research on document layout analysis on different languages

Research (papers linked)

An Algorithmic Approach to Driver Drowsiness Detection in an Autonomous Car

with Prof Md Motaharul Islam

UIU, Bangladesh

- · Detecting drowsiness using python OpenCV and shifting to autonomous
- Published in IEEE Region 10 Symposium, 2020
 - * DOI: 10.1109/TENSYMP50017.2020.9230766

A Novel Approach to Enhance Safety on Drowsy Driving in Self-Driving Car

with Prof Md Motaharul Islam

UIU, Bangladesh

- Submitted to Springer MONET & currently working on revised manuscript
- Collected data on drowsy driving and analysed them to detect drowsiness and turn on autonomous mode to reach to a safe parking space if the driver is drowsy.

Projects

Facial Expression Recognition | *CNN*, *State-of-the-art*

- Proposed a state-of-the-art Convolutional Attentional MaskingNetwork and Ensemble Network
- Obtained 76.12% accuracy on detecting FER

Driver Drowsiness Detection and Alarming System | Python, Opencv,ML

- Real-Time driver observation using OpenCV & python API
- State-of-the-art approach to handle post-alarm condition on autonomous vehicle
- The system can book a local parking space and reach there if the driver is sleepy

Cassava Leaf Disease Detection | Kaggle, CNN

- From the images of leaves four different disease has been classified
- · Learned different analysing techniques to extract features from leaves

Image to Prime Generator | Python

- · Created unique prime numbers from each facial image
- The prime numbers can be used in algorithms like RSA, AES, ECDSA

Hybrid Key Generation for Blockchain Wallet | Blockchain, Python

• Created hybrid key using RSA & ECDSA to make a transaction from wallet

Virtual Library Management System | HTML, CSS, PhP, MySQL

- · Designed System Analysis
- Made user and admin panels with HTML and CSS.
- · Connected to Database which is made with PHP and MySQL

Bangla Name Generator | open source, serverless function, python

- Developed an API system that can suggest Bengali name depending on gender
- Used serverless function from vercel to launch the the system

Citrus Leaf Disease Detection | Python, CNN

· Working for state-of-the-art result on detecting Citrus leaves disease

Extracurriculars

Brac University Computer Club

Jan 2019 - December 2019

Creative Department

Executive

- · Made posters for social media and Contributed to different clubbing events
- · Assigned tasks to juniors depending on their knowledge capability

Certificates & Awards

Merit Scholarship Award, Brac University

Sept 2018 - May 2021

• 10% waiver on Tuition Fees on every semester.

VC's List and Dean's List Award, Brac University

- Got placed on VC's List for 5 semesters as recognition of achieving a GPA of 3.90-4.00 on those particular semesters.
- Got placed on Dean's List for 3 semesters as recognition of achieving a GPA of 3.70-3.89 on those particular semesters.

Presentation Skill, Brac University

Sept 2017 - Nov 2017

- As an activity at Residential Campus, Brac University
- Learned how to solve case studies and presented them to the panel members

Skills

Languages: Java, Python, C/C++(basic), SQL, JavaScript(basic), HTML/CSS(basic)

Human Languages: Bangla, English, Hindi, German(basic), French(basic)

Developer Tools: Jupyter Notebooks, Git, Keras, Tensorboard, Pytorch, Tensorflow, Google Cloud

Platform, VS Code

Reference

Md. Motaharul Islam, PhD

Professor, Department of Computer Science & Engineering United International University

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