Assistant Officer
Software Development Team
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N. I. MD. ASHAFUDDULA

Research Interests

Machine Learning, Deep Learning

Federated Learning, Knowledge Distillation, Decentralized Machine Learning, Explainable AI

AI in Health, Medical Image Analysis, Pattern Recognition, Computer Vision

Natural Language Processing

English Language Proficiency

2023 IELTS: 6.5, (L: 7.5, R: 6.0, W: 6.5, S: 5.5)

Education

Dec 2019–Jan 2023
MSc. Engineering in Computer Science & Engineering, *Dhaka University of Engineering & Technology*, Gazipur, Dhaka, CGPA: 3.75 (Honors) / 4.00.
Courses: Advanced Image Processing, Advanced Algorithm Design and Analysis, Medical Image Processing, Machine Learning, Cloud Computing, and Neural Network.
Thesis: Skin cancer detection utilizing Intensity Value Estimation Model with a Deep Neural Network, **Advisor :** Dr. Rafiqul Islam

2013–Oct 2018
BSc. Engineering in Computer Science & Engineering, *Rajshahi University of Engineering & Technology (RUET)*, Rajshahi, CGPA: 3.23 / 4.00.
Thesis: Cold-Start Recommendation System Using K-Nearest Neighbor and Decision Tree in Movie Rating Prediction, **Advisor :** Biprodip Pal

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Employment History

Feb 2022 – present
Assistant Officer, *Software development team, Mercantile bank*, Dhaka, Responsible for designing and developing android applications and machine learning projects. Besides these, I am also responsible for designing client-side and server-side applications, managing well-functioning databases and applications, writing effective APIs, and writing technical documentation.

2019 – 2020 & 2021 – 2022
Android Consultant, *Software team, MedEasy*, Banasree, Dhaka, Responsible for analyzing user's data to predict the possible treatments using machine learning techniques by ensuring reusable, and reliable java code and also requirement analysis & feature improvement to ensure the best possible application performance.

Aug 2018 – Sep 2019
Software Engineer, IT, *Android team, Avis technologies ltd*, Panthapath, Dhaka, Responsible for designing and developing advanced android applications. Bug fixing and improving application performance, publishing apps on google play store ensuring app responsiveness, and developing and integrating APIs.

Publications

Journal Articles

2024 N. I. Md. Ashafuddula and Rafiqul Islam. Ive-mdnet: Intensity value estimation model combined with a transfer learning approach for melanoma skin cancer diagnosis. *SN Computer Science*, volume 5, page 435, 2024.

2023 N. I. Md. Ashafuddula, Bayezid Islam, and Rafiqul Islam. An intelligent diagnostic system to analyze early-stage chronic kidney disease for clinical application. *Applied Computational Intelligence and Soft Computing*, volume 2023, page 17. Hindawi, Nov. 2023.

2023 N. I. Md. Ashafuddula and Rafiqul Islam. Melanoma skin cancer and nevus mole classification using intensity value estimation with convolutional neural network. *Computer Science*, volume 24, Oct. 2023.

N I Md Ashafuddula, Rafiqul Islam, et al. Contourtl-net: Contour-based transfer learning algorithm for early-stage brain tumor detection. *International Journal of Biomedical Imaging*, volume 2024. Hindawi.

In Conference Proceedings

2018   Bayezid Islam, N. I. Md. Ashafuddula, and Firoz Mahmud. A machine learning approach to detect self-care problems of children with physical and motor disability. In *2018 21st International Conference of Computer and Information Technology (ICCIT)*, pages 1–4, 2018.

▬▬▬ Research Experiences

Jan 2024 – Continuing   **N. I. Md. Ashafuddula, Faruk Ahmed, Rafiqul Islam, and Bayezid Islam**, CaX-Net: A Stacking Ensemble Approach with Optimized Hyperparameters for Multi-Cancer Diagnosis, In *Preparation*.

▬▬▬ Peer Reviewer

2023-present   Computers in Biology and Medicine (4)

2023-present   SN Computer Science (1)

2023-present   Pattern Analysis and Applications (4)

▬▬▬ Projects

2023   ML focused Fraudulent Transactions Analysis, On-going, Mercantile Bank

2024   Inward Remittance Declaration Form-C (Android app), On-going, Mercantile Bank

2023   Mbl Islami App (Android app), Mercantile Bank

2022   CorporatePay (MBL Corporate Internet Banking), Mercantile Bank

2019–2022   MedEasy (Android app), online pharmacy service

2018-2019   Office inventory management (Android app), Avis Technologies Ltd.

2018   Light of Hope (Android app), Avis Technologies Ltd.

▬▬▬ Computer skills

Languages   Python, Java

Frameworks   Scikit Learn, Keras, TensorFlow, Java (Core Java, Spring Boot), Bootstrap

Web Techs   HTML 5, CSS, JSP, Javascript

Database   MySQL, MSsql, Firebase Realtime DB

Tools   Google Colab, Anaconda, Android studio, IntelliJ

▬▬▬ Recognitions & Awards

2016   1st Runner-Up, project: Nirapod Sorok (Android app) in *IEEE Robodroid Championship* (Mobile App contest 2016), Rajshahi University of Engineering & Technology

2016   Cricket tournament champion, *Inter department cricket tournament, RUET*.

2017   Cricket tournament runner-up *Inter department cricket tournament, RUET*.

▬▬▬ Training Programs

2022   **Basic Banking Training**, MBLTI, Mercantile Bank.

2018   **Machine Learning**, *Coursera online course*, by Andrew Ng, authorized by Stanford university.

▬▬▬ Referees

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