Assistant Officer
Software Development Team
Mercantile Bank, Dhaka-1209, Bangladesh
✆ *(+880) 1701009987, (+880) 1932082303*
✉ *md.ashafuddula@gmail.com*
 Github in *Linkedin* Ⓢ*Skype*

N. I. MD. ASHAFUDDULA

Research Interests

Machine Learning, Deep Learning, Federated Learning

Natural Language Processing, Generative AI

Internet of Things (IoT), Cyber-physical Systems, Human-Computer Interaction

Digital Healthcare, Medical Analytics, Biomedical, Computer Vision

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

Employment History

Feb 2022 – present **Assistant Officer**, *Software development team, Mercantile bank*, Dhaka, Responsible for Designing client-side and server-side architecture, Building the front-end of applications through appealing visual design, Developing and managing well-functioning databases and applications, Writing effective APIs, Writing technical documentation, and Building high availability components..

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

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.

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

Oct 2022 – Jan 2023	**N. I. Md. Ashafuddula, and Rafiqul Islam**, IVE-MDNet: An Improved Transfer Learning Model for Melanoma Diagnosis, In *Submission*.
June 2021 – Dec 2022	**N. I. Md. Ashafuddula and Rafiqul Islam**, Developing a contour-based deep learning architecture based on Convolutional Neural Network to efficiently detect brain tumors for an unseen dataset, In *Submission*.

Projects

2023	Mbl Islami App (Android app), Mercantile Bank
2022	CorporatePay (MBL Corporate Internet Banking), Mercantile Bank
2022	DNCC Tax pay (MBL tax collection portal), Mercantile bank
2019–2022	MedEasy (Android app), online pharmacy service
2022	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.
Mar 2017 — Sep 2017	**Top-Up IT training on Java**, *Training time: 300 hours*, on Core Java, Servlet, and Java Fx.

Referees

PROFESSOR DR. RAFIQUL ISLAM
Professor, Department of
Computer Science & Engineering
Dhaka University of Engineering & Technology
(DUET)
☎ +(880) 1911 350163
✉ rafiqul.islam@duet.ac.bd

BIPRODIP PAL
Assistant Professor, Department of
Computer Science & Engineering
Rajshahi University of Engineering & Technology
(RUET)
☎ +(880) 721 750742-3
✉ biprodip@cse.ruet.ac.bd
✉ biprodip.cse@gmail.com

FIROZ MAHMUD
Assistant Professor, Department of
Computer Science & Engineering
Rajshahi University of Engineering & Technology
(RUET)
☎ +(880) 1912851490
✉ fmahmud.ruet@gmail.com

MUHAMMAD MAHMUD HASAN
Executive Vice President & CTO
Department of Information & Technology
Mercantile Bank PLC.
☎ +(880) 1701 204568
✉ mahmud.hasan@mblbd.com