



# N. I. MD. ASHAFUDDULA

## Research Interests

Data Science, Big Data, Data Mining  
Health Informatics, Bioinformatics, Medical Image Analysis  
Natural Language Processing  
Climate Change

## Education

- 2020–Jan 2023 **MSc, Computer Science & Engineering**, Dhaka University of Engineering & Technology, Gazipur, Dhaka, CGPA: 3.75 / 4.00.  
Course: Advanced Image Processing, Advanced Algorithm Design and Analysis, Medical Image Processing, Machine Learning, Cloud Computing, and Neural Network.  
**Thesis:** Melanoma Skin Cancer and Nevus Mole Classification using Intensity Value Estimation with Convolutional Neural Network, accepted in Computer Science journal
- 2013–2018 **BSc, Computer Science & Engineering**, Rajshahi University of Engineering & Technology (RUET), Rajshahi, CGPA: 3.23 / 4.00.  
**Thesis:** Cold-start recommendation system using K-nearest neighbors and decision tree in movie rating predictions
- 2010–2012 **HSC, Bogra Cantonment Public School & College**, Bogra, Rajshahi, GPA: 5.00 / 5.00.  
Group: Science
- 2009–2010 **SSC, Bogra Cantonment Public School & College**, Bogra, Rajshahi, GPA: 5.00 / 5.00.  
Group: Science

## Publications

### Journal Articles

- 2022 N. I. Md. Ashafuddula and Rafiqul Islam. Melanoma skin cancer and nevus mole classification using intensity value estimation with convolutional neural network. AGH University of Science and Technology, 2022. forthcoming.

### 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

Dhaka University of Engineering & Technology (DUET), Gazipur

- Oct 2022 – Jan 2023 **N. I. Md. Ashafuddula, and Rafiqul Islam**, IVE-MDNet: An Improved Transfer Learning Model for Melanoma Diagnosis, In *Submission*.

Advisor : **Dr. Rafiqul Islam**, Professor, Department of Computer Science and Engineering, DUET, Gazipur ([Personal Web-page](#))

- Mar 2022 – **N. I. Md. Ashafuddula, Bayezid Islam and Rafiqul Islam**, An Intelligent Diagnostic System to analyze early-stage Chronic Kidney Disease for Clinical Application, In *Submission*.
- Nov 2022
- June 2021 – **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*.
- Dec 2022
- Advisor : **Dr. Rafiqul Islam**, Professor, Department of Computer Science and Engineering, DUET, Gazipur ([Personal Web-page](#))
- Rajshahi University of Engineering & Technology (RUET), Rajshahi
- July 2016 – **N. I. Md. Ashafuddula, and Biprodip Pal**, Cold-start recommendation system using K-nearest neighbors and decision tree in movie rating predictions.
- Dec 2017
- Advisor : **Biprodip Pal**, Professor, Department of Computer Science and Engineering, RUET, Rajshahi ([Personal Web-page](#))

## Projects

- 2023 **Up-coming, MblApps Mercantile bank service**, Mercantile bank
- 2022 **mCpay Mercantile bank service**, Mercantile bank
- 2022 **DNCC tax pay Mercantile bank service**, Mercantile bank
- 2019–2022 **MedEasy (DaktarBondhu) Android app MedEasy**, online pharmacy service
- 2019 **Office pick and Drop, Android app** , Avis technologies Ltd.
- 2022 **Office Inventory management, Android app** , Avis technologies Ltd.
- 2018 **Light of Hope, Android app** , Avis technologies Ltd.

## Recognitions & Awards

- 2016 **1st Runner-Up, “Nirapod sorok (Android application)”** in *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”*.

## Computer skills

- Programming Languages Python, Java, Dart
- Frameworks Keras, TensorFlow, Scikit Learn, Java (Spring MVC, Spring Boot), Bootstrap
- Web Techs HTML 5, CSS, JSP, Javascript
- Database SQL, MySQL, MSsql, Firebase Realtime DB
- Tools Google Colab, Anaconda, MS Excel, Android studio ■ IntelliJ

## Position of Responsibilities

- 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 **Android Consultant**, Software team, MedEasy, Banasree, Dhaka, Responsible for analyzing users 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..
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2021 – 2022

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

## Trainings

2022 **Basic Banking Training**, MBLTI, Mercantile Bank.  
2018 **Machine Learning course**, *Online course*, Coursera: provided by Andrew Ng, authorized by Stanford university.  
Mar 2017 — **Top-Up IT training on Java**, *Top-Up IT training on Java organized by BCC under LICT project*,  
Sep 2017 *training time was 300 hours on Java & Core Java*, organized by Bangladesh Computer Council (BCC), certified by George Washington University, USA.

## Referees

### PROFESSOR DR. RAFIQUIL ISLAM

*Professor, Department of  
Computer Science & Engineering  
Dhaka University of Engineering & Technology  
(DUET)*  
☎ +(880) 1911 350163  
✉ rafiquil.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

### MUHAMMAD MAHMUD HASAN

*Executive Vice President & CTO  
Department of Information & Technology  
Mercantile Bank Ltd*  
☎ +(880) 1701 204568  
✉ mahmud.hasan@mbld.com