

# N. I. MD. ASHAFUDDULA

Assistant Officer  
Software Development Team  
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## Research Interests

Machine Learning, Deep Learning  
Data Science, Data Analytics, Natural Language Processing  
Applications in Healthcare, Computer Vision, Medical Imaging

## English Language Proficiency

BSc. and MSc. academic Medium of Instruction (MOI) is English  
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.  
2023 Courses: Advanced Image Processing, Advanced Algorithm Design and Analysis, Medical Image Processing, Machine Learning, Cloud Computing, and Neural Network.
- 2013–Oct 2018 **BSc. Engineering in Computer Science & Engineering**, Rajshahi University of Engineering & Technology (RUET), Rajshahi, CGPA: 3.23 / 4.00.

## Publications

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

## Projects

- 2022 **CorporatePay Mercantile Bank corporate payment service**, Mercantile Bank
- 2022 **DNCC tax pay Mercantile bank service**, Mercantile bank

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

- 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

### 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 user’s & data to predict the possible treatments using Machine Learning techniques by ensuring reusable, and 2021 – 2022 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. .

### Training Programs

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

### Referees

**PROFESSOR DR. RAFIQUL ISLAM**  
*Professor, Department of Computer Science & Engineering*  
 Dhaka University of Engineering & Technology (DUET)  
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