

N. I. MD. ASHAFUDDULA

Software development team
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Education

- 2020–Mar 2023 **MSc, Computer Science & Engineering**, Dhaka University of Engineering & Technology, Gazipur, Dhaka, CGPA: 3.70 / 4.00 (continuing).
(expected) Course: Advanced Image Processing, Advanced Algorithm Design and Analysis, Medical Image Processing, Machine Learning, Cloud Computing, and Neural Network.
- 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. 2022.

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 Experience

Dhaka University of Engineering & Technology (DUET), Gazipur

- Mar 2022 – present **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*.
- June 2021 – present **Brain tumor detection and classification**.
Developing a contour-based deep learning architecture based on Convolutional Neural Network to efficiently detect brain tumors for an unseen dataset.
- Advisor : **Dr. Rafiqul Islam**, Professor, Department of Computer Science and Engineering, DUET, Gazipur ([Personal Web-page](#))
- March 2020 – 2022 **Melanoma skin cancer detection and classification at an early stage**.
Developing a deep learning architecture based on Convolutional Neural Network, Intensity-based model to work with more effective features.
- 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 – 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 **Up-comming, Mcpay Mercantile bank service**, Mercantile bank
- 2022 **Up-comming, 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, Keras, TensorFlow, Scikit Learn, Advanced JAVA (Spring MVC, Spring Boot)
- Web Technologies HTML 5, CSS, JSP, Javascript
- Database SQL, MySQL, MSsql, Firebase Realtime DB
- Tools Google Colab, Anaconda, MS Excel, Android studio ■ IntelliJ

Position of Responsibility

- 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 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..
- 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, developing and integrating APIs. .

Training

- 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. Rafiqul Islam

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Computer Science & Engineering*
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