

# N. I. MD. ASHAFUDDULA



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🗄 bitbucket.org/Ashaf\_razon/    @ Portfolio: sites.google.com/view/md-ashafuddula

## EXPERIENCE

SE - Software Engineer IT

**Avis Technologies LTD**

📅 August 2018 – September 2019    📍 Dhaka, Bangladesh

- Designing and developing advanced applications for the Android platform;
- To Design database (MSSql, MySQL, Map) and developing API's;
- To work with Google Cloud services (Firebase DB, Firebase Auth);
- Work with outside data sources and APIs;
- Bug fixing and improving application performance;
- Publishing App on Google play store;
- To deal with different screen sizes and applications with complex UI;
- To develop and integrate API to Mobile Applications;

Research Training & Courses

**Coursera – Online Machine Learning course conducted by Ast. Prof. Andrew Ng, Stanford University**

📅 April 2018 – May 2018    📍 Dhaka, Bangladesh

- Learn about machine learning algorithms and implementations of those algorithms;
- Real life applications;

Professional IT training – IT Training on Java

**Project of BCC – NASSCOM IT-ITES Sector Skill Council (SSC) Certification.**

📅 March 2017 – September 2017    📍 RUET, Rajshahi

Certificate verification no. G019861

- Develop skills on core Java;
- Develop skills on Java servlet;
- Develop a Banking management system

## LANGUAGES

Bangla    ● ● ● ● ●

English    ● ● ● ● ●

## SOFTSKILLS

Learning Potential    Team Work

Organization    Flexibility

Professionalism    Responsibility

MultiTasking    Work Under Pressure

## STRENGTHS

• Development Languages & Frameworks

Python    C    C++    PL/SQL    Android

JAVA

• Reasearch Libraries

Tensorflow    Keras    Scikit learn

• Reasearch Environment

Google Colab    Anaconda    Matlab

• Development Tools – IDE

NetBeans    Android studio

• Designing Tools

Photoshop CC

• Development Tools – DB

MySQL    SQLite    Firebase Realtime DB

• Software Design Pattern

MVP    BLoC

• Version Control System – Git

Github    Bitbucket

## PROJECTS

Analysis the performance of Brain tumor detection from Brain MRI image using two different segmentation techniques in a Transfer learning network

📅 December 2020 – 2021 📍 Dhaka, Bangladesh

- Description – In this work, the system was capable of detecting Tumor images and Non Tumor images. We were able to increase the accuracy of the system by sending images through brightness and contrast correction that increased the discrimination capability of the system. Our proposed methodology VGG16-TF with contour cropping shows better result than state-of-the-art methods.;
- Techs: Google Colab, Python, Keras, VGG16 model as Pre-trained model, CNN model;
- Detection & Classification Accuracy of proposed model– 99.123%.

Melanoma skin cancer detection and classification using CNN and Transfer learning with a newly developed proposed methodology

📅 March 2020 – 2021 📍 Dhaka, Bangladesh

- Description – Here we tried to focus mainly on the pre-processing step and develop a new methodology to preserve the significant features more than existing pre-processed techniques;
- Techs: Google Colab, Python, Keras, VGG16 model as Pre-trained model, CNN model;
- Detection & Classification Accuracy of proposed model– 96.53%.
- Submitted to a journal (Pending)

A Machine Learning Approach to Detect Self-Care Problems of Children with Physical and Motor Disability

Academic-RUET

📅 August 2018 – October 2018 📍 Dhaka, Bangladesh

- Description – Here, We showed a way to detect self-care problems of children with physical & motor disabilities efficiently using machine learning approach;
- Techs: Google Colab, Python, Machine Learning Algorithms;
- Publication: Published on an IEEE conference ICCIT-2018;

Addressing Cold-Start Recommendation System in Movie Rating Prediction

Academic-RUET

📅 June 2016 – September 2017 📍 RUET, Rajshahi

- Description – Academic thesis on the machine learning field to recommend movies to new users;
- Techs: Anaconda, Python, Machine Learning Algorithms;
- Find in Github

## EDUCATION

B.Sc. in Computer Science & Engineering

Rajshahi University of Engineering & Technology (RUET)

📅 2013 – 2018 📍 Rajshahi, Bangladesh

Thesis title: A cold-start Recommendation system using Machine Learning approach;  
Final Result: 3.23 out of 4.00 (CGPA)

H.S.C.

Bogra Cantonment Public School & College

📅 2011 – 2012 📍 Bogura, Bangladesh

Result: 5.00 out of 5.00

S.S.C.

Bogra Cantonment Public School & College

📅 2009 – 2010 📍 Bogura, Bangladesh

Result: 5.00 out of 5.00

## ACHIEVEMENTS

- 1st Runner-up in IEEE Robodroid Championship, 2016. An android app to help people for reducing road accident by growing awareness, emergency call when required by only shaking phone, aware people from nearest black spot in real time.

## PROBLEM SOLVING

Online judge

UVA online Judge

📅 2014 – 2015 📍 RUET

Solved: 102 problems

## HOBBIES

Reading AI news or blogs

Reading story books

Travelling

Playing Cricket

## PROJECTS

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### Inventory Management (Android App)

#### Avis Technologies LTD

📅 January 2019 – July 2019      📍 Dhaka, Bangladesh

- Description – We usually need to maintain inventory to make this thing more easy for administrator we come up with an inventory management app concept which will provide him necessary smart functions to reduce time and cost;
  - Techs: JAVA, Android studio, Google Auth, MS SQL database, ASP.net;
  - Status: Available in Google Playstore
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### Streaming Entertainment App (Android App)

#### Avis Technologies LTD

📅 January 2019 – September 2019      📍 Dhaka, Bangladesh

- Description – It is An android application for streaming movies, drama, songs & different entertainment video clips.
  - Techs: JAVA, Android studio, Google Auth, MySQL, ASP.net;
  - Status: Find in BitBucket
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### Pick & Drop (Android app)

#### Avis Technologies LTD

📅 December 2018 – March 2019      📍 Dhaka, Bangladesh

- Description – Office Pick & Drop service app. Two types of users can exist passengers & drivers. Passengers can see where their car is now & how much time it will take to pick him from his pickup point, can message the driver if he going that day or not, and also can update his pick point. On the other hand, Driver can see all the pick points and corresponding info to pick passengers from their pickup point.;
  - Techs: JAVA, Android studio, Google Maps, Google Auth, Firebase Realtime database;
  - Status: Find in BitBucket
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### Light of Hope (Android app)

#### Avis Technologies LTD

📅 October 2018 – May 2019      📍 Dhaka, Bangladesh

- Description – “Light of Hope” app will help us to find and communicate easily with registered workers.
- Techs: JAVA, Android studio, Google Maps, Google Auth, Firebase Realtime database;
- Status: Available in Google Playstore

## REFERENCES

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Assistant Professor Barshon Sen

Department of CSE, Rajshahi University of Engineering & Technology

📅 2015 - Present      📍 RUET, Rajshahi

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Md. Abdur Rahman Uzzal

General Manager, Bantel BD

📅 2012 - Present      📍 Kawran bazar, Dhaka

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Engr. Abul Kalam Azad

Head of IT, Avis Technologies LTD

📅 2015 - 2020      📍 Kawran bazar, Dhaka

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