

Amit Hasan Sadhin

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Research Interests

Machine Learning
Artificial Intelligence, Bio-medical
Deep Learning, Neural Network,
NLP, Object-detection.

CURRENT POSITION

- ✚ **Vision Department** as a research student for Gate Detection for drone racing. [Johor, Malaysia, UTM Drone Lab.](#) (July 2022 - Present)
- ✚ **Founding President and Programming Head** for drone research and development. [Johor, Malaysia, UTM Drone Club.](#) (February 2022 - Present)

EDUCATION

- ✚ **Bachelor of Computer Science (Software Engineering)** [University Of Technology Malaysia](#)
CGPA: 3.81 out of 4.00
Thesis: Road Crack Detection from Drone Images using Deep Learning Models
Advisor: Siti Zaiton Bt. Mohd Hashim (Professor) and Dr. Hussein Ali Bin Samma (Researcher)
Key Modules: Programing Languages (Java, C, C++), R programming, Probability & Statistical Data Analysis, Artificial Intelligence, Computational Intelligence, Statistics for data science, Software Engineering, Database, Computer Architecture, System Analysis and Design, Digital logic, Web programing, etc. [Johor, Malaysia](#)
(October 2019 – Present)
- ✚ **Higher Secondary School Certification** [Adamjee Cantonment College](#)
GPA: 5.00 out of 5.00
Courses: Physics 1&2, Chemistry, General Math, Higher Mathematics, ICT (Preliminary Programming), Biology, etc. [Dhaka, Bangladesh](#)
(June 2016 – February 2018)
- ✚ **Secondary School Certification** [National Bangla High School](#)
GPA: 5.00 out of 5.00
Courses: Physics, Chemistry, Mathematics, Biology, etc. [Dhaka, Bangladesh](#)
(January 2014 – December 2015)

PUBLICATIONS

Publication:

1. **Amit Hasan Sadhin**, “*Real-time Tomato leaf disease Classification Using Convolutional Neural Network*”, Acta Informatica Malaysia, Jan. 2023
2. **Amit Hasan Sadhin**, Nor Azman Bin Ismail, Syed Hamid Hussain Madni, Javed Ali, Gul Sahar, “*User-Centred Design and Usability Evaluation of Smart home Energy Management System*” International Research Journal of Modernization in Engineering Technology and Science, Aug. 2021
3. **Amit Hasan Sadhin**, Reshad Rayhan, Safayet Hossain Tanmoy “*A review of Convolutional Neural Network in emerging trends and opportunities in precision agriculture*” Acta Informatica Malaysia, Feb. 2023

Journal Under Review:

1. Abdullah Bark Mohammed Bin Bsehr, El Moatasem Balla Ossama Mohamed Wahba, **Amit Hasan Sathin**, Reshad Rayhan, Muhamad Aiman Fikri Bin Mohd Fadzli, “*Smartphone Controllable Spraying Pesticide Robot for agricultural fields*” Arabian journal for science and engineering.





Current Projects:

1. **Amit Hasan Sathin**, Hussain Ali Bin Samma, Reshad Rayhan “*A competitive analysis on modern object detection algorithms for underwater plastic objects*”.

SELECTED PROJECTS

- ✚ **Diabetes Prediction using Machine Learning**
01/2020-02/2020: This is a simple project where I build a diabetes prediction system using a Machine learning concept. I personally work on this project to learn Machine learning.
- ✚ **House Price Prediction Using Machine Learning**
03/2020-04/2020: To improve my understanding on Machine learning I work on this project using Boston dataset.
- ✚ **Fake News Prediction using Machine Learning**
05/2020-06/2020: This is a very simple project which I started to improve my knowledge on machine learning. The dataset is being collected from Kaggle.
- ✚ **Car Price Prediction Using Machine**
07/2020-08/2020: This is a project which I started in the vacation just to learn how does the prediction system work on a dynamic environment.
- ✚ **Gold Price Prediction Using Machine Learning**
09/2020-10/2020: This is a variation of the project Car Price Prediction Using Machine Learning.
- ✚ **Heart Disease Prediction using Machine**
11/2020-12/2020: As per my learning improvement I worked on this project based on my personal interest with some dataset collected from various sources.
- ✚ **Credit Card Fraud Detection using Machine Learning**
01/2021-02/2021: I started the project being inspired from an article published via CNN. Which highlighted the issues and the financial problem due to credit and debit card fraud.
- ✚ **Customer Segmentation using K-Means Clustering with Python**
03/2021-04/2021: The project I started as soon as I started understanding the K-Means in the beginning of 2021.
- ✚ **Parkinson’s disease Detection using Machine Learning**
05/2021-06/2021: This is a simple project which detect whether a patient affected with Parkinson’s or not via analysis the data.
- ✚ **Spam mail prediction using Machine Learning**
07/2021-08/2021: As now-a-days spam is become one of the most important concerns in mailing someone. This simple project follows the same concept that used by the current mail service provider.
- ✚ **Movie Recommendation Using Machine Learning**
10/2021-03/2022: Currently, I am working on a project which I call AI movie recommendation. For this project I am using few datasets which I found in Kaggle and other data provider websites.
- ✚ **Breast Cancer Classification using Machine Learning**
05/2022-11/2022: I am also working on a project just to fulfill my own interest in breast cancer classification as its became a burning issue for now. Although I am still learning via reading lots of research and their concept of classification. I hope in a very short time I will finish my work on this.

SELECTED EXPERIENCE

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|  Position: R&D Intern
Place: Dhaka, Bangladesh | Brac Bank Limited
(Aug 2020 – October 2020) |
|  Position: R &D Intern
Place: Penang, Malaysia | ViTrox Corporation Sdn. Bhd.,
(September 2022 –February 2023) |
|  Position: Core Member (Development)
Place: Johor, Malaysia | Google Developers Club.,
(January 2021 –March 2022) |
|  Position: President and Head of Programming
Place: UTM Bio-medical Lab, Johor, Malaysia | UTM Drone Club
(September 2021- September 2022) |

SKILLS

- Java, C++, Python, Java, Javascript, Opencv, Data Analysis Tools: R, Excel, Tabular, Matlab, Jupyter Architecture

AREA OF EXPERTISE

- Python Programming, Machine Learning Model creation, Confident Learning, Classification, Database label error findings, CNN, YOLO family algorithms and Object detection.

SELECTED CERTIFICATIONS

- UTM Dean-list Awards (6th times)
- Varsity Hackathon-Best Business Idea Award for ML Software
- Google Developers Core Membership Award for 2021