



## SHADMAAN HYE

### B.Sc. Graduate in Computer Science

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**Address:** 03 New Eskaton, Dhaka-1000

**Date of Birth:** 18<sup>th</sup> March, 1996

**Nationality:** Bangladeshi

**GitHub:** [Prapti-044](https://github.com/Prapti-044)

**LinkedIn:** [shadmaanhye](https://www.linkedin.com/in/shadmaanhye)

## Profile

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Inquisitive and determined Computer Science enthusiast, skilled in programming with a strong foundation in mathematics and logic. Seeking to achieve solid skills in Machine Learning, Artificial Intelligence, and Computer Vision and contribute through research opportunities.

## Experience

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R&D Intern, Ultra-X Asia Pacific Inc.

## Education

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- 2016 - 2020    **B.Sc. on Computer Science and Engineering**  
Khulna University of Engineering & Technology (KUET), Khulna  
**CGPA: 3.59** out of 4.00  
Average **CGPA: 3.80** (Last 4 semesters average GPA)
- 2014 - 2015    **Higher Secondary School Certificate (HSC)**  
Viqarunnisa Noon School & College (English Version), Dhaka Board  
**GPA: 5.00** out of 5.00
- 2008 - 2013    **Secondary School Certificate (SSC)**  
Viqarunnisa Noon School & College (English Version), Dhaka Board  
**GPA: 5.00** out of 5.00
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## Technical Skills

- Web Programming and Development
- Object Oriented Programming (OOP)
- Data Structure and Algorithm Design
- Android and IOS app development
- Expertise in Arduino and Raspberry Pi
- Database design with PL/SQ

## Programming Language Skills

- C
- C++
- Python
- Java
- PL/SQL
- PHP
- JavaScript
- ASP.NET

## Research Interests

- Deep Learning
- Computer Vision
- Image Processing
- Machine Learning
- Web Programming
- Artificial Intelligence

## Achievements: Academic

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- Holder of **Dean's Award** (3<sup>rd</sup> year and 4<sup>th</sup> year).
- Holder of **Vocational Scholarship** for 4 consecutive years.
- Top 17% of the class (out of 121 students).

## Research Works

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### Journals

- **Handwritten Numeral Recognition Integrating Start-End Writing Measure with Convolution Neural Network**  
M. A. H. Akhand, Md. Rahat-uz-Zaman, **Shadmaan Hye**, N. Siddique  
Undergraduate Thesis work.  
Under review in Journal of Ambient Intelligence and Humanized Computing, Springer, 2020  
Impact Factor – 4.594 (SJR).
- **Shortest Route Analysis of Dhaka City Roads Using Fare Estimation and Schedule Heuristics**  
Md. Rahat-uz-Zaman, **Shadmaan Hye**  
Under review in Transportation Research Part C: Emerging Technologies, Elsevier, 2020  
Impact Factor – 6.077.

### Conference Publications

- **Extraction of Sequence from Bangla Handwritten Numerals and Recognition Using LSTM**  
**Shadmaan Hye**, Md. Rahat-uz-Zaman, M. A. H Akhand  
Undergraduate Thesis work.  
Accepted at IEEE 10 Symposium Region 10 conference, 2020, Dhaka.
- **Agglomerative Clustering of Handwritten Numerals to Determine Similarity of Different Languages**  
Md. Rahat-uz-Zaman, **Shadmaan Hye**  
Accepted at 22nd International Conference on Computer and Information Technology (ICCIT), 2019, Dhaka.  
pp. 1-6, DOI: 10.1109/ICCIT48885.2019.9038550
- **Audio Future Block Prediction with Conditional Generative Adversarial Network**  
Md. Rahat-uz-Zaman, **Shadmaan Hye**, Mahmudul Hasan  
Accepted at 3rd International Conference on Electrical, Computer & Telecommunication Engineering (ICECTE), Rajshahi.
- **VISION-IT: A Novel Approach for Blind to Help Hear What is in Front**  
Md. Rahat-uz-Zaman, **Shadmaan Hye**  
Will be submitted to 23<sup>rd</sup> International Conference on Computer and Information Technology (ICCIT), 2020, Dhaka.

### Dataset Contribution

- **Dataset for Shortest Route Analysis of Dhaka City Roads**  
Md. Rahat-uz-Zaman, **Shadmaan Hye**  
Published in Mendeley datasets. Mendeley Data, v1  
<http://dx.doi.org/10.17632/j5b93k2xhk.1>

## Achievements: Co-curricular Activities

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### International Competition

- **4<sup>th</sup> position**, IEEE YESIST12 Maker Fair 2019 Bangkok, Thailand

### National Competition

- **Runners Up**, First University Level Datathon, Technovation 2.0 NSU, Dhaka
- **Runners Up**, Code Samurai Hackathon 2019 Dhaka University, Dhaka
- **Company's Special Award**, Code Samurai 2019 Hackathon Dhaka University, Dhaka
- **Champion**, won a grant of **1 million BDT** Student to Startup Bangladesh 2019 Dhaka
- **Champion**, Ignition 2: National Project Competition 2019 KUET, Khulna
- **Runners Up**, ULAB EEE fest Poster Presentation 2019 ULAB, Dhaka
- **Divisional Runners Up**, Intra University Programming Contest 2018 NSU, Dhaka

### Regional Competition

- **Champion**, YESIST12 Maker Fair Regional Selection Round 2019 KUET, Khulna
- **Best Team of 2k15 Award**, Intra KUET Programming Contest 2019 KUET, Khulna
- **Champion**, University Day Project Show Competition 2019 KUET, Khulna
- **Runners Up**, University Day Poster Presentation 2019 KUET, Khulna

### Programming Contest

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- 4<sup>th</sup> National Girls' Programming Contest (NGPC) 2019 Daffodil University, Dhaka
- 3<sup>rd</sup> National Girls' Programming Contest (NGPC) 2018 Daffodil University, Dhaka
- Intra KUET Programming Contest, 2016 KUET, Khulna
- Grace Hoppers Girls' Programming Camp 2017 KUET, Khulna
- Ada Lovelace Programming Contest 2018 Bangladesh Open Source Network (BdOSN)
- National Girls' Programming Contest (NGPC) Preliminary Round 2019
- Google Cloud Next'18 Bangladesh Asia Pacific University, Dhaka
- Second Round of Channel i Search for Innovators Season 2 organized by A2I, Dhaka
- ACM ICPC Dhaka Online Preliminary Round

Participated in consecutive 4 years:

2020: Rank **201<sup>st</sup>** out of 1805 national teams

2019: Rank **458<sup>th</sup>** out of 1788 national teams

2018: Rank **565<sup>th</sup>** out of 1604 national teams

2017: Rank **1109<sup>th</sup>** out of 1454 national teams

## Project

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- **VISION IT**

A smart stick for the blind victims which will vibrate intensely if any obstacles come through and also can detect objects and recognize known persons with a GPS tracking locator.

**Technologies:** TensorFlow, OpenCV, Face recognition, Django, SQLite

**GitHub:** Currently in a private repository.

- **Bangla + Bangla Phonetics + English Sentiment Analysis with English Translation from Prothom Alo**

Automatically scrap Bengali text from Prothom Alo website and apply sentiment analysis.

**Technologies:** Spider web scrapper, NLTK, TextBlob, PyQt

**GitHub:** [Prapti-044/Bangla-or-Banglish-or-EnglishSentiment-Analysis-with-English-translation](https://github.com/Prapti-044/Bangla-or-Banglish-or-EnglishSentiment-Analysis-with-English-translation)

- **Best Bidders Website**

An online bidding website. Users can post what they want to sell, interested buyers will bid on the product until a selling time.

**Technologies:** TensorFlow, OpenCV, Face recognition, Django, SQLite

**GitHub:** [Prapti-044/Best-bidders-website](https://github.com/Prapti-044/Best-bidders-website)

- **Compiler Project**

A self-made Bangla programming language compile.

**Technologies:** C++, Bison, Flex

**GitHub:** [Prapti-044/Compiler-Project-in-Bangla-Language](https://github.com/Prapti-044/Compiler-Project-in-Bangla-Language)

- **Electronic Store Database Management System Project**

A Database Management System for Electronic Store.

**Technologies:** Oracle Database, PL/SQL

**GitHub:** [Prapti-044/Electronic-Store-Database-Management-System-Project](https://github.com/Prapti-044/Electronic-Store-Database-Management-System-Project)

- **IOS Messenger App**

A text messaging app for IOS platform.

**Technologies:** Swift, XCode

**GitHub:** [Prapti-044/Messenger-App-for-IOS](https://github.com/Prapti-044/Messenger-App-for-IOS)

## Leadership Activities

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- **Mentored**, 5 Workshops on Basic Electronic Building Blocks American Corner, Khulna
- **Volunteered**, National High School Programming Contest (NHSPC) KUET, Khulna
- **Mentored**, Several classes on Competitive Programming SGIPC, KUET, Khulna

## Problem Solving

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- Solved **300+** Problems on Codeforces, UVa Online Judge, LightOJ, Timus Online Judge.

## Completed Online Courses

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|---|-------------------------------|
| • Machine Learning  | Stanford University, Coursera |
| • Machine Learning 101: Introduction to Machine Learning      | Didaktik Academy, Udemy       |
| • The Art of Doing: 40 Challenging Python Programs            | Michael Eramo, Udemy          |
| • 101 C Programming for beginners                             | Subrat Dash -TTRC, Udemy      |
| • Java Programming: Complete Beginner to Advanced             | CodeIn Academy, Udemy         |
| • Sentiment Analysis with LSTM and Keras in Python            | Udemy                         |
| • Python for Machine Learning Bootcamp                        | Behi school code, Udemy       |
| • Python for Network Engineers Bootcamp                       | Behi school code, Udemy       |
| • The Complete Python 3 Course: Beginner to Advanced          | Joseph Delgadill, Udemy       |
| • Learn Python and Artificial Intelligence (AI) Coding Tools, | Udemy                         |
| • Oracle MySQL Database for Beginners                         | Musavi Abdullah, Udemy        |
| • Learn and Master C Programming                              | Behi school code, Udemy       |
| • Understanding the NLP   Neuro-Linguistic Programming,       | Course Box, Udemy             |
| • Machine Learning: Logistic Regression, LDA & K-NN in Python | Start-TechAcademy, Udemy      |
| • Bootstrap & jQuery - Certification Course                   | YouAccel Training, Udemy      |
| • Machine Learning Masterclass                                | JADA eLearning, Udemy         |
| • Start Machine Learning Here: Linear Regression model in R   | Start-TechAcademy, Udemy      |

## Languages

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|-------------------|---------------------------|------------------|--------------------------|
| • <b>Bangla</b>   | Native Proficiency        | • <b>English</b> | Professional Proficiency |
| • <b>Japanese</b> | JLPT N4 Level Proficiency | • <b>Hindi</b>   | Working Proficiency      |

## Reference

- **Dr. Md. Aminul Haque Akhand** (Thesis Supervisor)  
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