S. MAHMUDUL HASAN

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EDUCATION

Bangladesh University of Engineering and Technology, Dhaka   *2014 - 2018*
B.Sc Engg. in Computer Science and Engineering (CSE)
CGPA: 3.65 / 4.00

STANDARDIZED TEST SCORES

GRE: 328 / 340

Qunatitative	Verbal	Analytical Writing
167 (90th Percentile)	161 (88th Percentile)	4.5 (81st Percentile)

TOEFL: 113 / 120

Reading	Listening	Speaking	Writing
30	29	24	30

RESEARCH INTEREST

I am broadly interested in Computer Vision and Image Processing, Natural Language Processing, Machine Learning and Data Mining, including their interdisciplinary applications.

RESEARCH

Generative model for generating faces*   (*On going project)
Deep Learning

Working on generating faces using Generative Adversarial Networks.

A configurable platform for data accumulation and annotation*   (*On going project)
Software / Research Tool

A project to build a platform for data accumulation and annotation for different machine learning and deep learning tasks.

Undergraduate Thesis
Data Mining

Accumulated data on different diseases' natures and their outbreaks, and different socioeconomic conditions of different countries around the world. Analyzed the data using different statistical and machine learning techniques to infer the potential socioeconomic factors that can contribute to disease outbreaks.
Supervisor: A. B. M. Alim Al Islam

Research Paper
Revealing Influences of Socioeconomic Factors over Disease Outbreaks

A paper based on undergraduate thesis work and submitted in CSCW.

WORK EXPERIENCE

Canadian University of Bangladesh, Dhaka   February 2019 - September 2019
Lecturer, Department of CSE

Instructed courses (including labs) on Structured Programming Language, Compilers, Computer Networks and Mobile Application Development.

REVE Systems, Dhaka   April 2018 - July 2018
Intern

Worked on development of Bangla Text To Speech (TTS) systems. Developed a system for collecting and annotating Bangla speech data.

Bangladesh University of Engineering and Technology   August 2017 - October 2018
Undergraduate Researcher, Department of CSE

Worked on collection of disease outbreak data, disease nature data and data on socio-economic factors of different countries of the world. Did thesis on discovering potential socio-economic factors for disease outbreaks.

TECHNICAL STRENGTHS

Programming Languages	C/C++ , Python , Java, JavaScript,Assembly
Markup Languages	HTML, XML, LaTeX, MarkDown
Database	MongoDB, MySQL, Oracle
Machine Learning	Keras+Tensorflow, PyTorch
Software & Tools	Git, Android SDK, JavaFX, Tkinter, Python Flask, Ionic Framework

SELECTED PROJECTS

Image Data Collection System
Image data collection and labeling system built using Ionic framework and Python Flask.
Bangla Handwritten Digit Recognition
Implemented CNN based classifier for Bangla handwritten digit recognition which achieved 89% accuracy on data collected through Image Data Collection System.
Smile Detection
Implemented CNN based classifier (93% test accuracy) for detecting smile and implemented code for using the trained classifier in realtime.
BrackFire
Fire service calling and tracking application built using Android SDK, Firebase API and Firebase Cloud Messaging(FCM) API.
FileShare
A two part system, for file sharing between Windows, Android and Linux using a common Wifi network, built using JavaFX and Android SDK.
More at: https://numan947.github.io

AWARDS AND SCHOLARSHIPS

Dean's List	January, 2014
University Stipend	July, 2014
Board General Scholarship	HSC (2013)

EXTRA CURRICULAR ACTIVITIES

Competitive Programmar
Used to solve programming problems and take part in Competitive Programming Contests
UVA Profile Link: https://uhunt.onlinejudge.org/id/404339

REFERENCES

A. B. M. Alim Al Islam
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Department of CSE,
BUET, Dhaka.
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