

# Farzad Ahmed

Ahsanullah University of Science and Technology

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## Summary

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- Lecturer at the Department of Computer Science and Engineering, Ahsanullah University of Science and Technology (AUST)
- Graduated from the Department of Computer Science and Engineering, Ahsanullah University of Science and Technology (AUST) in Spring 2019 session.
- Research experience in Machine Learning, Deep Learning, Natural Language Processing, Image Processing
- Extremely passionate about Machine Learning, Deep Learning and its sub-fields
- Fundamental skills in Natural Language Processing and it's sub field

## Education

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**Ahsanullah University of Science and Technology**

*B. Sc. in Computer Science and Engineering*

**CGPA: 3.923** on a scale of 4.00 (1<sup>st</sup> in Merit Position)

**Dhaka, Bangladesh**

*Fall 2015 - Spring 2019*

**Mastermind School**

*A levels*

GPA: 5.00 on a scale of 5.00

**Dhaka, Bangladesh**

*2013 - 2015*

**Mastermind School**

*O levels*

GPA: 5.00 on a scale of 5.00

**Dhaka, Bangladesh**

*2013*

## Research Interests

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Machine Learning, Deep Learning, Natural Language Processing, Text Mining & its sub-fields

## Undergraduate Thesis

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**Early Depression Detection From Social Network Using Deep Learning Techniques**

*Supervisor: Mr. Faisal Muhammad Shah, Associate Professor, Dept. of CSE. AUST.*

We worked on different posts of users on reddit to early detect the depressed users by analyzing their posts. This is a Natural Language Processing (NLP) task. Different feature sets were used to find out the best results. We experimented with different deep learning models to decide what models are more suitable for detect depression early. We have also developed a hybrid model of deep learning for early depression detection.

## Publications

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- Md Tanzim Reza, **Farzad Ahmed**, Shihab Sharar, Annajiat Alim Rasel "**Interpretable Retinal Disease Classification from OCT Images Using Deep Neural Network and Explainable AI**". Published in *International Conference on Electronics, Communications and Information Technology 2021 (ICECIT 2021)*
- Faisal Muhammad Shah, Sajib Kumar Saha Joy, **Farzad Ahmed**, Tonmoy Hossain, Mayeesha Humaira, Amit Saha Ami, Shimul Paul, Md Abidur Rahman Khan Jim Sifat Ahmed. "**A Comprehensive Survey of COVID-19 Detection Using Medical Images**". Published in *SN Computer Science A Springer Nature Journal*, 2021
- Faisal M. Shah, **Farzad Ahmed**, Sajib Kumar Saha Joy, Sifat Ahmed, Samir Sadek, Rimon Shil and Md. Hasanul Kabir. "**Early Depression Detection from Social Network Using Deep Learning Techniques**". Published in *2020 IEEE Region 10 Symposium (TENSYP)*, 5-7 June 2020, Dhaka, Bangladesh

## Technical Skills

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**Languages:** Python, C, C++, C#, JAVA, HTML5, PHP, XML, JavaScript, 80x86 Assembly

**Framework:** CSS, WebGL

**Database:** MySQL

**Design Tools:** Eclipse, NetBeans, Microsoft Visual Studio, PyCharm, Jupyter Notebook

**Operating System:** Windows, Android

**Deep Learning Tools:** Keras, Tensorflow

**Others:** PL/SQL, LaTeX

## Experience

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### Lecturer

Department of Computer Science & Engineering  
Ahsanullah University of Science and Technology, Dhaka, Bangladesh

*January 2021 - Present*

### Lecturer (Part Time)

Department of Computer Science & Engineering  
BRAC University, Dhaka, Bangladesh

*January 2020 - December 2020*

## Awards & Achievements

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- "Dean's List of Honor" (based on B.Sc. result)
- Certificate on Presentation at 2020 IEEE Region 10 Symposium (TENSYP), 5-7 June 2020, Dhaka, Bangladesh
- Certificate for completing the course "Neural Networks and Deep Learning" in Coursera
- Certificate for completing the course "Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization" in Coursera

## Academic Projects

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1. Mario Hopper  
Description: A game made with C using Visual Studio.  
Link: <https://github.com/Farzad-1996/Mario-Hopper>
2. DLD Simulator  
Description: A Java Project that can do basic DLD gate operations  
Link: <https://github.com/Farzad-1996/DLDSimulator>
3. Magnificent Cox's Bazaar  
Description: An Android Project that acts as a guide for Cox's Bazaar Tour.  
Link: <https://github.com/Farzad-1996/MagnificentCoxsBazaar>
4. Online Computer Shop  
Description: C# Project, A website for computer shops to sell computers and other electronic products related to computers.  
Link: <https://github.com/Farzad-1996/OnlineComputerShop>
5. IELTS Exam  
Description: Servlet Project IETLS Examination System is a website designed to sit for the IELTS type examination through online.  
Link: <https://github.com/Farzad-1996/IELTSEXAM>
6. Food Finder  
Description: Food Finder in Bangladesh is an app designed to help the user to find the right food in various restaurants. The app allows users to search for food of different location and in different cuisine.  
Link: <https://github.com/Farzad-1996/FoodFinder>
7. Online Exam  
Description: Php Website Project Online Exam is a website designed to sit for GRE type exam in online through registration. The website allows registered members to access the system and participate in the exam.  
Link: <https://github.com/Farzad-1996/OnlineExam>

## Extracurricular Activities

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- Advisor of Cefalo CodeFiesta 2022: AUST Inter University Programming Contest
- Organizer at ICCIT 2020: The 23<sup>rd</sup> International Conference on Computer and Information Technology
- Organizer of Intra-AUST Programming Contest Fall 2018
- Organizer of AUST CSE Festival Fall 2018

## Reference

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**Prof. Dr. Kazi A Kalpoma**

Head, Department of CSE

Director, ICT Center

Ahsanullah University of Science and Technology

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**Dr. S. M. A. Al-Mamun**

Professor, Department of Computing Science and Engineering

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Email: almamun@aust.edu, al\_mamun81@yahoo.com

**Mr. Faisal Muhammad Shah**

Associate Professor, Department of Computer Science & Engineering

Ahsanullah University of Science and Technology

Email: faisal.cse@aust.edu, faisal505@hotmail.com

I declare that the all the statements made in this curriculam vitae are correct.

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Lecturer

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Researchgate: [https://www.researchgate.net/profile/Farzad\\_Ahmed](https://www.researchgate.net/profile/Farzad_Ahmed)