

# Farzad Ahmed

Ahsanullah University of Science and Technology

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ResearchGate: <https://www.researchgate.net/profile/Farzad-Ahmed>

Github: <https://github.com/Farzad-1996>

## 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, Computer Vision & Image Processing

## 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.*

## Publications

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- 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
- **Farzad Ahmed**, Samiha Sultana, Md Tanzim Reza, Sajib Kumar Saha Joy and Md. Golam Rabiul Alam "**Interpretable Movie Review Analysis Using Machine Learning and Transformer Models Leveraging XAI**". Accepted for Publication in *IEEE Asia-Pacific Conference on Computer Science and Data Engineering 2022 (IEE CSDE 2022) Gold Coast, Australia*
- Sajib Kumar Saha Joy, **Farzad Ahmed**, Al Hasib Mahamud and Nibir Chandra Mandal "**An Empirical Studies on How the Developers Discussed about Pandas Topics**". Published in *International Conference on Machine Intelligence and Emerging Technologies (MIET 2022), Noakhali, Bangladesh*

- 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 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 (TENSYPMP)*, 5-7 June 2020, Dhaka, Bangladesh

## Current Projects

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1. Image Captioning
2. Explainable Artificial Intelligence for Text and Image.
3. Paraphrasing of Bangla Text.
4. Topic Modelling.

## 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

*February 2020 - December 2020*

## 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

## 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 (TENSYPMP), 5-7 June 2020, Dhaka, Bangladesh
- Certificate for completing the courses "Neural Networks and Deep Learning" & "Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization" in Coursera
- Undergraduate admission sub-committee member of 3 consecutive semesters at Ahsanullah University of Science and Technology

## 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

## Reference

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

Professor & Dean, Faculty of Engineering  
Ahsanullah University of Science and Technology  
Email: almamun@aust.edu

### **Prof. Dr. Mohammad Shafiul Alam**

Head, Department of CSE  
Ahsanullah University of Science and Technology  
Email: shafiul.cse@aust.edu

### **Mr. Faisal Muhammad Shah**

Associate Professor, Department of Computer Science & Engineering  
Ahsanullah University of Science and Technology  
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