

Sajib Kumar Saha Joy

Ahsanullah University of Science and Technology

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Summary

- 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, Computer Vision
- Extremely passionate about Machine Learning, Deep Learning and its sub-fields
- Fundamental skills in Natural Language Processing and it's sub field

Education

Ahsanullah University of Science and Technology

B. Sc. in Computer Science and Engineering

CGPA: 3.856 on a scale of 4.00 (2nd in Merit Position)

Dhaka, Bangladesh

Fall 2015 - Spring 2019

Rajshahi Government City College

HSC

GPA: 5.00 on a scale of 5.00

Rajshahi, Bangladesh

2011 - 2012

Shahzadpur Pilot High School

SSC

GPA: 5.00 on a scale of 5.00

Rajshahi, Bangladesh

2009 - 2010

Research Interests

Machine Learning, Deep Learning, Natural Language Processing, Computer Vision & its sub-fields

Undergraduate Thesis

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

- **Sajib Kumar Saha Joy**, Dibyo Fabian Dofadar, Riyo Hayat Khan, Md. Sabbir Ahmed and Rafeed Rahman. **"A Comparative Study on COVID-19 Fake News Detection Using Different Transformer Based Models"**. Published in *IEEE Symposium on Industrial Electronics & Applications (ISIEA 2022)*, 16-17 July 2022, Malaysia
- Faisal Muhammad Shah, **Sajib Kumar Saha Joy**, Farzad Ahmed, Tonmoy Hossain, Mayeesha Humaira, Amit Saha Ami, Shimul Paul, Md Abidur Rahman Khan Jim and 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

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

Framework: CSS, WebGL, JSP

Database: MySQL

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

Operating System: Windows, Android

Deep Learning Tools: Keras, Tensorflow, Pytorch

Others: PL/SQL, LaTeX

Experience

Lecturer

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

August 2021 - Present

Lecturer (Contractual)

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

October 2020 - September 2021

Awards & Achievements

- Dean's List of Honor (Based on B.Sc. result)
- Certificate for paper presentation at 2022 IEEE Symposium on Industrial Electronics & Applications, 16-17 July 2022, Malaysia
- Certificate for completing the course "AI for Medicine Specialization" in Coursera
- Certificate for completing the course "TensorFlow" in Coursera
- Certificate for completing the course "Machine Learning" in Coursera
- Certificate for completing the course "Deep Learning Specialization" in Coursera
- Certificate for completing the course "Python for Data Science and Machine Learning Bootcamp" in Udemy

Academic Projects

1. Benchmarking Different Versions of BERT
Description: This project is all about analyzing the result obtained from different versions of Bert for classification task.
Link: <https://github.com/sajib-kumar/Benchmarking-different-version-of-bert->
2. Loan Pay Back Prediction System
Description: Predict whether a person going to pay the loan back or not.
Link: <https://github.com/sajib-kumar/Data-Science-Machine-Learning/tree/master/Loan%20Pay%20Back%20Predictor>
3. Image Caption Genarator
Description: This project is all about generating caption of image. Flickr_8k dataset was used in this project.
Link: <https://github.com/joyjft/Image-Caption-Genarator>
4. Online Examination System
Description: A online based exam system made with HTML, servlet, jsp, apache server.
Link: <https://github.com/joyjft/Online-Written-Examination-System>
5. Expenditure Management System
Description: By using this android app, user can store their daily cost , shows Monthly cost.
Link: <https://github.com/joyjft/DailyCost>
6. Graph Simulator
Description: Graph simulation application. User can create graph and can run BFS and DFS algorithm.
Link: <https://github.com/joyjft/Graph-Simulator>
7. Paint
Description: User can draw basic shapes, free hand drawing, color object, save Image application.
Link: <https://github.com/joyjft/Paint>

Extracurricular Activities

- o Advisor of Cefalo CodeFiesta 2022: AUST Inter University Programming Contest
- o Organizer of Intra-AUST Programming Contest Fall 2018
- o Organizer of AUST CSE Festival Fall 2018

Reference

Prof. Dr. Kazi A Kalpoma

Head, Department of CSE

Director, ICT Center

Ahsanullah University of Science and Technology

Email: kalpoma@aust.edu, kalpoma@gmail.com

Dr. S. M. A. Al-Mamun

Professor, Department of Computing Science and Engineering

Ahsanullah University of Science and Technology

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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Researchgate: <https://www.researchgate.net/profile/Sajib-Kumar-Saha-Joy-2>