

# MD ZOBAER HOSSAIN

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## RESEARCH INTERESTS

♣ Machine Learning, Deep Learning, Natural Language Processing, Artificial Intelligence

## PUBLICATIONS

Hossain, M. Z., Rahman, M. A., Islam, M. S., & Kar, S. (2020). BanFakeNews: A Dataset for Detecting Fake News in Bangla. Proceedings of The 12th Language Resources and Evaluation Conference, 2862–2871. <https://www.aclweb.org/anthology/2020.lrec-1.349>

## RESEARCH EXPERIENCE

♣ **Research Assistant** *Shahjalal University of Science and Technology* July 2020 to present

- ◇ **Project Title:** "A Comprehensive Integrated Platform for Bangla Language Processing"
- ◇ Designing & implementing a web-based text and corpus analysis tool for Bangla
- ◇ Working on a survey on Bangla Natural Language Processing

♣ **Research Assistant** *Shahjalal University of Science and Technology* August 2019 to June 2020

- ◇ **Project Title:** "Integrating Linguistic Knowledge into English-Bangla Neural Machine Translation"
- ◇ Evaluated the effect of Sentence alignment of English-Bangla parallel corpus on Neural Machine Translation
- ◇ Expanded the current English-Bangla parallel corpus by building a tool that collects data from crowdsourcing

## EDUCATION

♣ BS, Computer Science & Engineering, Shahjalal University of Science and Technology, 2020. CGPA 3.53/4.00  
◇ **Advisor:** Md Saiful Islam  
◇ **Thesis:** Early Detection of Fake News in Bangla Language

## RESEARCH PROJECTS

♣ **Early Detection of Fake News** January 2019 to February 2020

- ◇ Developed a dataset from scratch consisting of  $\approx 50K$  news
- ◇ Evaluated different text classification model on this dataset to find a model to identify Bangla fake news

♣ **Headline Generation from Bangla News** 2019

- ◇ Built a model to generate news headline using Recurrent Neural Network (RNN)

## ACADEMIC PROJECTS

♣ **Go Parcel**  
◇ A digital platform for parcel management with a live tracking system on google map implemented using Django and Android

♣ **MCQE**  
◇ An MCQ based exam system implemented using Java Socket Programming

♣ **Tourist Guide**  
◇ An android application related to tourism in Sylhet, Bangladesh

## INDUSTRY EXPERIENCE

♣ **Software Engineering Intern** *Octaglory* October 2019 to March 2020  
◇ Built a desktop application for Sales, Billing & Inventory Management using Java

## MENTORING EXPERIENCE

♣ **Mentor** *Shahjalal University of Science and Technology* April 2020 to present  
◇ Mentoring two undergraduate groups on their thesis projects

♣ **Programming Instructor** *Cadet College* September 2018 to January 2019  
◇ Served as a Programming Instructor in several cadet colleges in Bangladesh

## SKILLS

- ♣ **Algorithms:** Worked with Neural Network models like RNN, CNN, BERT
- ♣ **Frameworks & Tools:** Pytorch, Scikit-learn, Pandas, Numpy, Jupyter
- ♣ **Programming Skills:** Python, Java, C, C++, Javascript, SQL
- ♣ **Problem Solving:** Solved 500+ problems from online judge platforms like UVA, Codeforces, Hackerrank

## ACTIVITIES & AWARDS

♣ Organizing Secretary at IEEE SUST Student Branch	2019-2020
♣ Chair at IEEE Computer Society SUST Student Branch Chapter	2019-2020
♣ Participated in National Hackathon on Frontier Technologies, Dhaka, Bangladesh	2020
♣ Best Poster Award at 2nd International Conference on Bangla Speech and Language Processing	2019
♣ Participated in HULT Prize Regional Round, Mumbai	2019
◇ HULT prize is one of the world's largest Idea competition for students organized by the HULT Foundation and UN	
♣ Awarded Best project in Techfest, Shahjalal University of Science and Technology, Sylhet, Bangladesh	2019
♣ Awarded Runner Up in Digital Khichuri Challenge, Sylhet, Bangladesh	2019
◇ Digital Khichuri Challenge is a creative competition organized by UNDP, Bangladesh	
♣ Awarded Best business idea in ICT Techfest, Bangladesh University of Professionals, Dhaka, Bangladesh	2018
♣ Awarded Best team in HULT Prize On Campus Round	2018