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* *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

♣ **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

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**
  ◇ A 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 an 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