

Jaydeb Sarker

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<https://jaydebsarker.github.io/>

EDUCATION

Wayne State University

Ph.D. in Computer Science, GPA: 3.96/4.0

Detroit, MI

Aug. 2019 – Present

Rajshahi University of Engineering and Technology

BSc. in Computer Science and Engineering, CGPA: 3.71/4.0

Rajshahi, Bangladesh

Jan. 2012 – Oct. 2016

RESEARCH INTEREST

Software Engineering, Natural Language Processing

CURRENT RESEARCH

I am working on toxic content analysis in Software Engineering communication using Natural Language Processing techniques. I have used Deep learning tools including DPCNN, BERT, BiLSTM for building the model. We have manually labeled 19,000 SE related text for training and validation our model.

EXPERIENCE

Graduate Teaching Assistant

Wayne State University

Aug 2020 – Present

Detroit, MI

- Taught Courses: Problem Solving and Programming (Theory and Laboratory)

Lecturer

University of Information Technology and Sciences

Jan. 2017 – July 2019

Dhaka, Bangladesh

- Taught undergraduate programming, data structure and Algorithms courses
- Worked as a mentor for programming contest team

Internship on 5G wireless communication

Otto-Von-Guericke-Universität

Sept 2017- Nov 2017

Magdeburg, Germany

- Goal: Beam steering from the antenna using USRPs.
Outcome: 16- QAM produced the best accuracy using OFDM (Orthogonal Frequency Division Multiplexing).

PUBLICATIONS

1. Jaydeb Sarker, Asif K. Turzo, and Amiangshu Bosu. A benchmark study of the contemporary toxicity detectors on software engineering interactions. In *Proceedings of the 27th Asia-Pacific Software Engineering Conference, APSEC'20*, page TBD, December 2020.
2. Jaydeb Sarker, Mustain Billah, and Md Al Mamun. Textual question answering for semantic parsing in natural language processing. In *2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT)*, pages 1–5. IEEE, 2019.

TALKS/PRESENTATION

1. Presented paper in APSEC 2020, virtual presentation in available, Link

PROJECTS

Deep Pyramid LSTM Networks for Toxic Comment Classification

| *Python, Tensorflow* [Github]

Jan 2020 – Apr 2020

- I and two of my group members developed a deep learning based model for detecting toxic contents in Software Engineering domain .[Github]

City_of_Youtube_Videos | *Java EE (Servlet, jsp, apache tomcat server)*

Sep 2019 – Dec 2019

- This is a graduate course project where I worked on some complex Database queries in MySQL and designed the system using Java EE (Servlet, jsp) and apache tomcat server.[Github]

ANALYTICAL PROBLEM SOLVING

- Solved 100+ problems in UVA, Leetcode, and LightOj online judges.
- Participated programming contest in “RUET CSE-2012”, participated ACM-ICPC preliminary contest in Dhaka Region-2014.

HONORS AND AWARDS

- Deutscher Akademischer Austauschdienst (DAAD) scholarship, Germany- 2017
- Technical scholarship in RUET for outstanding result throughout 2012 to 2016

LEADERSHIPS AND EXTRA-CURRICULAR ACTIVITIES

- Coach of UITS programming contest team in National Collegiate Programming Contest (NCPG).
- Speaker of the seminar on “Higher Studies Abroad for the students of UITS” in 2018.

CERTIFICATIONS

CCNA Routing and Switching. The course includes Introduction to Networks, Routing and Switching Essentials, Scaling Networks and Connecting Networks.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, HTML/CSS

Developer Tools: Git, Eclipse, Visual Studio, PyCharm, Jupyter Notebook

Machine Learning Tools: Tensorflow, Pytorch, Keras

Problem Solving : solved 100+ problems including UVA, LightOj, Leetcode online judges

REFERENCES

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