

Pritom Saha Akash

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EDUCATION

University of Illinois at Urbana-Champaign

Ph.D. in Computer Science

IL, USA

Aug. 2020 – Present

Institute of Information Technology, University of Dhaka

M.S. in Software Engineering

Dhaka, Bangladesh

Jan. 2018 – June 2019

Institute of Information Technology, University of Dhaka

B.S. in Software Engineering

Dhaka, Bangladesh

Jan. 2014 – Dec. 2017

RESEARCH INTERESTS

Text Mining & Text Information Systems, including Information Extraction, Text Summarization and Natural Language Processing

EXPERIENCE

Graduate Research Assistant

University of Illinois at Urbana-Champaign

Aug. 2020 – Present

IL, USA

- **Lab:** Data and Information Systems Laboratory
- **Advisor:** Prof. Kevin C. Chang

Software Engineer

Samsung R&D Institute Bangladesh

Nov. 2019 – Aug. 2020

Dhaka, Bangladesh

- Tizen Wearable Application Development Team in Mobile Application Group 2 (MAG2)
- Developing Samsung wearable applications in Tizen platform

Short Course Instructor

Institute of Information Technology, University of Dhaka

Jan. 2018 – Sep. 2019

Dhaka, Bangladesh

- Worked as an instructor in short courses of Web Programming, Web design and Office application

Software Engineer Intern

Datasoft System Bangladesh Limited

Jan. 2017 – June 2017

Dhaka, Bangladesh

- Involved in developing two in-house automation projects

PUBLICATIONS

1. **Pritom Saha Akash**, Md. Eusha Kadir, Amin Ahsan Ali and Mohammad Shoyaib, "Inter-node Hellinger distance based Decision Tree", *In Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence, IJCAI-19*.
2. Md. Eusha Kadir, **Pritom Saha Akash**, Sadia Sharmin, Amin Ahsan Ali, and Mohammad Shoyaib. "A Proximity Weighted Evidential k Nearest Neighbor Classifier for Imbalanced Data". *In Pacific-Asia Conference on Knowledge Discovery and Data Mining, pp. 71-83. Springer, Cham, 2020*.
3. Md. Eusha Kadir, **Pritom Saha Akash**, Sadia Sharmin, Amin Ahsan Ali, and Mohammad Shoyaib. "Can a Simple Approach Identify Complex Nurse Care Activity?". *In Adjunct Proceedings of the 2019 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the 2019 International Symposium on Wearable Computers (UbiComp/ISWC '19 Adjunct)* [Both Md. Eusha Kadir and Pritom Saha Akash are the first author]
4. **Pritom Saha Akash**, Md. Eusha Kadir, Amin Ahsan Ali, Md. Nurul Ahad Tawhid and Mohammad Shoyaib, "Introducing Confidence as a Weight in Random Forest", *2019 International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST)*. [Best Presenter Award]

5. **Pritom Saha Akash**, Ali Zafar Sadiq and Ahmedul Kabir, "An Approach of Extracting God Class Exploiting Both Structural and Semantic Similarity", *ENASE 2019 : 14th International Conference on Evaluation of Novel Approaches to Software Engineering*.
6. Jeba, Tahmim, Tarek Mahmud, **Pritom Saha Akash**, and Nadia Nahar. "God Class Refactoring Recommendation and Extraction Using Context based Grouping."
7. Md. Eusha Kadir, **Pritom Saha Akash**, Amin Ahsan Ali, Mohammad Shoyaib and Zerina Begum, "Evidential SVM for binary classification", *ICASERT-2019: 1st International Conference on Advances in Science, Engineering and Robotics Technology*.
8. Ali Zafar Sadiq, Ahmedul Kabir, **Pritom Saha Akash** and Md. Jubair Ibna Mostafa, "Analyzing Corrective Maintenance using Change Coupled Clusters at Fix-inducing Changes", *2019 International Conference on Electrical, Computer and Communication Engineering (ECCE)*.

MASTER'S THESIS

- Pritom Saha Akash, "An Evidential Inter-node Hellinger Distance based Tree Classifier", *Institute of Information Technology, University of Dhaka, 2019*

RESEARCH PROJECTS

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| Context Sensitive Spell Checking Tool for Bangla Language | Jul. 2017 - Nov. 2017 |
| <ul style="list-style-type: none"> • A undergrad research project, worked individually • A Bangla Spell Checker that can detect and provide suggestions for typographic and contextual error in a sentence • Developed using Python 3.5 and Django 1.11.2 | |

AWARDS & GRANTS

- 2019 IEEE Computer Society Bangladesh Chapter's Award for Award for Academic & Research Excellence in recognition of Outstanding Research Accomplishments
- Winner in a Human activity recognition challenge called *NURSE CARE ACTIVITY RECOGNITION CHALLENGE* as a part of HASCA workshop at Ubicomp 2019
- Awarded for *IJCAI-AIJ 2019 TRAVEL and ACCESSIBILITY GRANT*
- Awarded as the best presenter in an international conference, ICREST 2019
- Awarded as an ICT fellow (2018-19) under ICT Division Bangladesh

TECHNICAL SKILLS

Programming: Java, Python, Matlab, C/C++, MySQL, JavaScript, HTML/CSS, R, Django, Laravel
Software and Tools: Git, LaTeX, IntelliJ, Eclipse, Android Studio