

# Pritom Saha Akash

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## EDUCATION

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### 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

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

## EXPERIENCE

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### 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

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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)*.

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## PREPRINTS

- **Pritom Saha Akash**, "Exploring Variational Graph Auto-Encoders for Extract Class Refactoring Recommendation", *ResearchGate preprint*: 10.13140/RG.2.2.14480.94727. 2021.
- **Pritom Saha Akash**, "Online Aggregation based Approximate Query Processing: A Literature Survey", *ResearchGate preprint*: 10.13140/RG.2.2.12803.22567. 2021.

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## MASTER'S THESIS

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

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## SENIOR PROJECT

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

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## 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

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## TECHNICAL SKILLS

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