

SHEIKH RABIUL ISLAM

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EDUCATION

- **Ph.D.** (Candidate) in Computer Science, *Tennessee Tech University, TN, USA.* 2015-Spring, 2020
Selected coursework: Machine Learning, Data Mining, Big Data, Anomaly and Intrusion Detection, Intelligent Information Systems, Learning Theory, and Parallel Programming.
- **MS** in Computer Science, GPA 3.89, *Tennessee Tech University, TN, USA.* 2015-2018
- **BSc** in Computer Science, GPA 3.84, *Islamic University of Technology, Bangladesh.* 2007-2010

TOOLS AND RELATED SKILLS

- *Programming:* Python, C++, Java, PHP, MPI, OpenMP, CUDA, Javascript, and R.
- *Data Science:* Proficient in Scikit-learn, NLTK, Pandas, and Flask; Familiar with Tensorflow, Keras, Caffe, D3.js, Highchart, Matlab, and Weka.
- *Database:* Oracle, MySQL, PostgreSQL, and SQLite3.
- *Certification & Training:* High-Performance Computing Workshop at ORNL, Oracle Database SQL Certified Expert (2013), Red Hat Certified Engineer (RHCE) training course at Base Ltd.

EXPERIENCE

- *Graduate Research Assistant*, Tennessee Tech University: Currently working on improving explainability of Artificial Intelligence based complex models. 2018-present
- *Advanced Short-Term Research Intern*, Oak Ridge National Laboratory (ORNL), USA: Worked on an automated and generalized malware detection technique from host logs. Summer, 2018
- *Graduate Teaching Assistant*, Tennessee Tech University: Worked on different research and software development project. Also, instructed some undergraduate labs (C++, Database). 2015-2018
- Worked independently and collaboratively in multiple software development projects during my four years of fulltime job in two different telecommunication company in Bangladesh. 2011-2015

RESEARCH AND AWARDS

- *Research Interests:* Explainable Artificial Intelligence, Fraud/Anomaly Detection, Predictive Modeling, Big Data Analytics, and Data Mining.
- Islam et al., *Infusing domain knowledge in AI-based "black box" models for better explainability with application in bankruptcy prediction*, KDD 2019, Workshop: Anomaly Detection in Finance. 2019
- *Automated Ransomware Behavior Analysis: Pattern Extraction and Early Detection*, SciSec 2019
- Islam et al., *Mining Illegal Insider Trading of Stocks: A Proactive Approach*, IEEE Big Data, 2018. 2018
- Islam et al., *Credit Default Mining Using Combined Machine Learning and Heuristic Approach*, ICDATA, 2018. 2018
- Islam et al., *Mining Bad Credit Card Accounts from OLAP and OLTP*. ACM-ICDDA, 2017. 2017
- Co-author in few other research paper, poster, and extended abstract.
- Ivanhoe Fellowship; Student Travel Award, ACM SIGKDD. 2017, 2019

PROFESSIONAL SERVICES

- President, Computer Science Graduate Club 2018-2019

Extended Profile: <https://sheikhrabiul.github.io> | https://sheikhrabiul.github.io/publications/curriculum_vitae.pdf