SHEIKH RABIUL ISLAM

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EDUCATION

• **Ph.D.** (Candidate) in Computer Science, *Tennessee Tech University, TN, USA.* *Selected coursework:* Machine Learning, Data Mining, Big Data, Anomaly and Intrusion Detection, Intelligent Information Systems, Learning Theory, and Parallel Programming.	2015-Spring,2020
• **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., *Domain Knowledge Aided Explainable Artificial Intelligence for Intrusion Detection and Response*. Accepted in AAAI-MAKE 2020.	2020
• 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-ICCDA, 2017.	2017
• 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