

Abdullah Al Mamun

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EDUCATION

- **Florida International University (FIU)** Miami, FL
PhD in Computer Science; GPA: 3.53 Aug. 2018 – Dec. 2021
- **King Fahd University of Petroleum & Minerals (KFUPM)** KSA
MS in Computer Engineering; CGPA: 3.53 Aug. 2014 – Dec. 2016
- **Dhaka University of Engineering and Technology (DUET)** Dhaka, Bangladesh
BS in Computer Science and Engineering; CGPA: 3.49 2007 – 2012

SKILLS

- **Languages:** Python, C++, SQL **Front End:** PHP, HTML, CSS, JavaScript
- **Back End:** Hadoop, MySQL **Miscellaneous:** TensorFlow, Scikit-learn, AWS, GCP

EXPERIENCES

- **Florida International University** Miami, FL
Graduate Assistant Aug 2018 - Present
 - **Feature Selection Framework:** Developing an intelligent feature selection framework for high dimensional data towards better classification/ clustering tasks. Language/Tools: Python, TensorFlow, Keras, GPU
 - **Teaching:** Taught Object Oriented Programming (C++, Python), HCI to UG students
- **Research Institute, KFUPM** KSA
Freelance Software Engineer Jan 2015 - Dec 2016
 - **Web Quiz:** Developed a cloud based online quiz platform for 5000+ users
- **Softwindtech** Dhaka, Bangladesh
Software Engineer Jan 2013 – July. 2014
 - **Web Applications:** Developed and maintained various web apps

PROJECTS

- **Sleep Stages Classifier:** Developed a deep learning based sleep stages classifier for diagnose sleep-related diseases.
- **Cancer Type Classifier:** Developed deep learning based cancer type/subtype classifier as a screening tool.
- **Climate Change Indicator:** Developed a deep learning model using LSTM to analyze climate change related tweets.
- **OS File System:** Slower file system for Linux.
- **Spam Tweet Filter:** Developed semi-supervised real-time tweet spam filter using Hadoop, Spark-Streaming
- **Robocup-SSL:** Implemented an embedded system for motion control of an omnidirectional mobile robot

PUBLICATIONS

- **Al Mamun, Abdullah**, Mohammad Tariq Nasir, and Ahmad Khayyat. “Embedded System for Motion Control of an Omnidirectional Mobile Robot.” IEEE Access, vol. 6, pp. 6722-6739, Jan 2018. (Q1, IF 4.09)
- Tanvir, Raihanul Bari, Tasmia Aqila, Mona Maharjan, **Abdullah Al Mamun**, and Ananda Mohan Mondal. “Graph Theoretic and Pearson Correlation-Based Discovery of Network Biomarkers for Cancer.” Data 4, no. 2 (2019): 81.
- **Al Mamun, Abdullah**, Ananda Mondal. “Feature Selection and Classification Reveal key lncRNAs for Multiple Cancers.” In 2019 IEEE International Conference on Bioinformatics and Biomedicine (BIBM). IEEE, 2019.

- Aqila, Tasmia, **Abdullah Al Mamun**, and Ananda Mohan Mondal. “Pseudotime Based Discovery of Breast Cancer Heterogeneity.” In 2019 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), pp. 2049-2054. IEEE, 2019.
- M. H. Al-Meer and **Al Mamun, Abdullah** “Deep Learning in Classifying Sleep Stages,” 2018 Thirteenth International Conference on Digital Information Management (ICDIM), Berlin, Germany, 2018, pp. 12-17.
- AlSaad, Rawan, Somaya Al-Máadeed, **Abdullah Al Mamun**, and Sabri Boughorbel. “A Deep Learning Based Automatic Severity Detector for Diabetic Retinopathy.” In International Conference on Machine Learning and Data Mining in Pattern Recognition, pp. 64-76. Springer, Cham, 2018.
- **Al Mamun, Abdullah** Abdullah Al Mamun, and Abdullatif Shikfa. “Challenges and Mitigation of Cyber Threat in Automated Vehicle: An Integrated Approach.” In 2018 International Conference of Electrical and Electronic Technologies for Automotive, pp. 1-6. IEEE, 2018.
- **Al Mamun, Abdullah** Fahim Djatmiko, and Mridul Kanti Das. “Binary multi-objective PSO and GA for adding new features into an existing product line.” In 2016 19th International Conference on Computer and Information Technology (ICCIT), pp. 581-585. IEEE, 2016.

AWARD RECEIVED

- **Champion:** 2nd GCC Robotics Challenge at Qatar, 2017. Organized by IEEE and IET
- **Internal Research Award:** for outstanding research contribution from Qatar University, 2018
- **NSTIP Award:** from Ministry of Science Research and Technology, KSA at KFUPM, 2014 - 2015
- **Deanship Award:** (Full-fund for MS) at KFUPM, 2014 - 2017
- **Conference Travel Fellowships:**
 - 10th ACM International Conference on Bioinformatics, Computational Biology and Health Informatics, NY, USA, 2019
 - IEEE International Conference on Bioinformatics and Biomedicine, San Diego, USA, 2019
 - IEEE International Conference of Electrical and Electronic Technologies for Automotive, Milan, Italy, 2018
 - 13th International Conference on Digital Information Management (ICDIM), Berlin, Germany, 2018