

## Abdullah Al Mamun

PhD Candidate, FIU, Miami, FL, USA

[GitHub](#) | [LinkedIn](#) | [Google Scholar](#)

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### Education

- PhD candidate in computer science, Florida International University, Miami, USA. 2018–now. CGPA: 3.53
- MS in computer engineering, King Fahd University of Petroleum & Minerals, KSA, CGPA: 3.53, 2015-17
- BS in computer science, Dhaka University of Engineering and Technology, Bangladesh, 2008-11, CGPA: 3.49

### Technical Skills

Python, C/C++, Keras, TensorFlow, Scikit learn, DeepLearning4Java, R-Studio, SPSS, Minitab, SQL, github, Latex, MatLab, PHP, JScript, mBed

### Highlighted Projects [Source code: <https://github.com/pwaabdullah>]

- Feature selection from Bigdata for classification/clustering problem. Language/Tools: Python, Tensorflow, Keras
- OS File System Implementation. Language/Tools: C
- Multithreaded Programming and Synchronization. Language/Tools: C
- Semi-Supervised Real-time Tweet Spam Filtering Using Spark-Streaming. Language/Tools: Scala, Hadoop, Spark, Spark-Stream, python
- Discovering Functional Dependencies in Hidden Data using Approximate Formal Concept. Language/Tools: Python

### Accomplishments

- Champion: 2<sup>nd</sup> GCC Robotics Challenge 2017 by IET, IEEE
- Internal Grant: Qatar University Internal Research Grants for 2018, \$7000
- NSTIP Grants: Student Research Project for a year, KFUPM, 2014-2015, \$2500
- Deanship Award: Full-fund scholarship for MS, KFUPM, August 2014 - January 2017, \$21500
- Merit Scholarship: Awarded for academic excellence in all terms at DUET, Dhaka, Bangladesh, 2008-2012

### Certifications

- End-to-End Machine Learning with TensorFlow on GCP (Google Cloud Platform) offered by **Google**, 2020.
- Distributed System and Cloud Computing Concept, part-1 and part-2 offered by **University of Illinois at Urbana Champaign**. Instructor: Prof. Indranil Gupta, computer science, UIUC, 2015

### Research Interests

Data Science, Machine Learning, Computational Biology

### Highlighted Publications [Source code: <https://github.com/pwaabdullah/Research-Project>]:

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|------|---|
| 2020 | <p><b>Al Mamun, Abdullah</b>, Ananda Mondal. "lncRNA-CAE: Pan-cancer Feature Selection and Classification Reveals Important lncRNAs " in <i>ACMBCB 2020</i>. <i>Under review</i>. Source Code: <a href="https://github.com/pwaabdullah/CoRAE">https://github.com/pwaabdullah/CoRAE</a></p> <p><b>Al Mamun, Abdullah</b>, Ananda Mondal. " Feature Selection and Classification Reveal key lncRNAs for Multiple Cancers." In <i>2019 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)</i>. IEEE, 2019.</p>   |
| 2019 | <p><b>Al Mamun, Abdullah</b>, and Ananda Mohan Mondal. "Long Non-coding RNA Based Cancer Classification using Deep Neural Networks." In <i>Proceedings of the 10th ACM International Conference on Bioinformatics, Computational Biology and Health Informatics</i>, ACM, 2019.</p>   |
| 2018 | <p>M. H. Al-Meer and <b>Al Mamun, Abdullah</b> "Deep Learning in Classifying Sleep Stages," <i>2018 Thirteenth International Conference on Digital Information Management (ICDIM)</i>, Berlin, Germany, 2018, pp. 12-17.</p> <p>AlSaad, R., Al-Máadeed, S., <b>Al Mamun, Abdullah</b>, &amp; Boughorbel, S. (2018, July). A Deep Learning Based Automatic Severity Detector for Diabetic Retinopathy. In <i>International Conference on Machine Learning and Data Mining in Pattern Recognition</i>(pp. 64-76). Springer, Cham.</p> <p><b>Al Mamun, Abdullah</b>, Mohammad Tariq Nasir, and Ahmad Khayyat. "Embedded System for Motion Control of an Omnidirectional Mobile Robot." <i>IEEE Access</i>, vol. 6, pp. 6722-6739, Jan 2018. (<b>Q1, IF 4.09</b>)</p> |

### Job Experiences

- [2018–now]: **Teaching Assistant** at FIU. Taught OOP (C++, python), HCI to undergrad students
- [2017-2018]: **Lab instructor** at Qatar University, Doha, Qatar. Taught OOP (C++, python) to undergrad students
- [2015-2017]: **Freelance researcher** at RI, KFUPM, KSA. Developed an ML model using LSTM to analyze tweets
- [2013-2015]: **SDE-1** at Personal Web Assistant Corporation, USA (Dhaka Office). Develop and maintain <http://pwame.com>

### Leaderships

- **Summer trainer** for six high school teachers and four middle school students at FIU, Miami, USA. 2019
- **Robocup-SSL: Team lead** of embedded system team for International Robotic Soccer Competition RoboCup-SSL. 2016

### Reference

- **Dr. Ananda Mohan Mondal**, Assistant Professor, SCIS, FIU, Miami. amondal@fiu.edu, +1 (305) 348-3588. Relationship: PhD supervisor
- **Mizanur Rahman**, SDE-2, Amazon Seattle. mrahmane@amazon.com. Relationship: grad colleague