Abdullah Al Mamun

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Educations

- **Florida International University (FIU)** Miami, FL
  PhD in Computer Science; GPA: 3.53/4; Expected Graduation: Dec'21 *08/2018–12/2021*
- **King Fahd University of Petroleum & Minerals (KFUPM)** Saudi Arabia
  Masters in Computer Engineering; CGPA: 3.54/4 *08/2014–12/2016*
- **Dhaka University of Engineering and Technology (DUET)** Bangladesh
  Bachelor in Computer Science and Engineering; CGPA: 3.49/4 *01/2007–01/2012*

Skills

- **Programming Languages**: C/C++, Python, JavaScript, R, MATLAB, SQL
- **Back End**: Machine Learning, OpenCV, Computer Vision, TensorFlow, Keras, PyTorch, Pandas, Scikit-learn, AWS, Google Cloud ML Engine, Azure, Spark, Hadoop, NoSQL, Linux, Flask, MySQL, GPU, CI/CD, Git
- **Front End**: React, Redux, Node.js, Angular, HTML5, CSS, PHP, AJAX, JQuery, MongoDB
- **Soft Skills**: Googling, Problem solving, Critical thinking, Documentation, Reliable, and Consistent

Experiences

- **Machine Learning Engineer** Miami, FL
  Florida International University *08/2018–Current*
  - Developed a deep learning based feature selection framework for high dimensional data e.g. (60k genomics, Brain fMRI image, Text). Selected features produced upto 98% classification accuracy.
  - Designed and Developed Linux based In-Memory File System with add/delete/read/write functionalities
- **Software Engineer (Part-time)** Saudi Arabia
  King Fahd University of Petroleum & Minerals *01/2015–12/2016*
  - Implemented LSTM based sentiment analysis tool to analysis the customer feedback with 99% accuracy.
- **Software Engineer** Bangladesh
  Softwindtech Ltd. *07/2012–07/2014*
  - Design and developed 10+ scalable and high available web applications
  - Collaborated with other engineers to identify and alleviate number of bugs and errors in different software

Certifications

- **Google**: End-to-End Machine Learning with TensorFlow on Google Cloud Platform (Issued: March, 2020)
- **University of Illinois Urbana-Champaign**: Cloud Computing Concepts: Part 1 & 2 (Issued: April 2015)

Awards Received

- **Champion**: 2nd GCC Robotics Challenge at Qatar, 2017. Organized by IEEE and IET
- **ACM Membership**: ACM complimentary membership for 1 year (Membership ID# 4761120)
- **Conference Travel Fellowships**:
  - 10th ACM BCB, NY, USA, 2019
  - IEEE BIBM, San Diego, USA, 2019

Selected Publications

- **A. Al Mamun**, M. Sobhan, R. B. Tanvir, C. J. Dimitroff and A. M. Mondal,"Deep Learning to Discover Cancer Glycome Genes Signifying the Origins of Cancer," 2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), Seoul, Korea (South), 2020, pp. 2425-2431, doi: 10.1109/BIBM49941.2020.9313450.
- **A. A. Mamun**, W. Duan and A. M. Mondal, "Pan-cancer Feature Selection and Classification Reveals Important Long Non-coding RNAs," 2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), Seoul, Korea (South), 2020, pp. 2417-2424, doi: 10.1109/BIBM49941.2020.9313332.
- **A. Al Mamun** and A. M. Mondal, "Feature Selection and Classification Reveal Key lncRNAs for Multiple Cancers," 2019 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), San Diego, CA, USA, 2019, pp. 2825-2831, doi: 10.1109/BIBM47256.2019.8983413.
- T. Aqila, **A. A. Mamun**, and A. M. Mondal, "Pseudotime Based Discovery of Breast Cancer Heterogeneity," 2019 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), San Diego, CA, USA, 2019, pp. 2049-2054, doi: 10.1109/BIBM47256.2019.8983300.
- 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**, 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)
- 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.