Abdullah Al Mamun

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EDUCATIONS

- **Florida International University (FIU)** — Miami, FL
  PhD in Computer Science; GPA: 3.53 — *Aug. 2018 – Jun 2021*

- **King Fahd University of Petroleum & Minerals (KFUPM)** — Saudi Arabia
  MS in Computer Engineering; CGPA: 3.53 — *Aug. 2014 – Dec. 2016*

- **Dhaka University of Engineering and Technology (DUET)** — Bangladesh
  BS in Computer Science and Engineering; CGPA: 3.49 — *2007 – 2012*

SKILLS

- **Programming Languages**: C/C++, Python, R, MATLAB, SQL

- **Front End**: React, Redux, JavaScript, Node.js, Angular, HTML5, CSS, PHP, AJAX, JQuery, MongoDB

- **Back End**: TensorFlow, Keras, PyTorch, Pandas, Scikit-learn, AWS, Google Cloud ML Engine, Azure, Spark, Hadoop, NoSQL, Unix, Linux, Flask, MySQL, GPU, CI/CD

EXPERIENCES

- **Machine Learning Engineer** — Miami, FL
  Florida International University — *Aug 2018 - Present*
  - Developed a drug recommendation system using Deep Learning as a graduate research assistant:
  - Developed deep learning based feature selection framework for better classification/clustering:

- **Software Engineer (Part-time)** — Saudi Arabia
  King Fahd University of Petroleum & Minerals — *Jan 2015 - Dec 2016*
  - Developed and maintain a cloud based MOOC platform for nearly 5K users:

- **Software Engineer** — Bangladesh
  Softwindtech Ltd. — *Jan 2013 – July. 2014*
  - Design and developed 10+ web applications such as online banking application, Personal web assistant etc.:

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)

OTHER PROJECTS

- **Developed Deep Learning based sleep stages classifier**: Trained model can classify the patients based on their brain signal collected from electropalatogram channel
- **Implemented LSTM based sentiment analysis tool**: To analysis the customer feedback automatically
- **Designed and Developed Linux based File System**: A full functional file system where user can add/delete/update a file or directory using C++
- **Developed semi-supervised real-time tweet spam filter**: Trained distributed model can remove the scam tweets in real-time

AWARDS RECEIVED

- **Champion**: 2nd GCC Robotics Challenge at Qatar, 2017. Organized by IEEE and IET
- **Conference Travel Fellowships**:

  - 10th ACM BCB, NY, USA, 2019
  - IEEE BIBM, San Diego, USA, 2019
  - IEEE AEIT AUTOMOTIVE, Milan, Italy, 2018

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.

- **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** 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.