Md Mustafizur Rahman

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OBJECTIVE

Seeking an internship position for summer 2019 in the area of Machine Learning and Deep Learning

EDUCATION

University of Texas at Austin　　　　　　　　　　　　　　　　　　　　　　　　Austin, TX
Ph.D. in Information Science (in progress); GPA: 3.89　　　　　　　　　　　*Aug. 2016 – Present*

University of Virginia　　　　　　　　　　　　　　　　　　　　　　　Charlottesville, VA
Masters in Computer Science; GPA: 3.72　　　　　　　　　　　　　　　　*Aug. 2014 – May 2016*

Bangladesh University of Engineering and Technology　　　　　　　　Dhaka, Bangladesh
M.Sc. in Computer Science and Engineering; GPA: 3.83　　　　　　　　　*Mar. 2011 – Aug. 2013*

Bangladesh University of Engineering and Technology　　　　　　　　Dhaka, Bangladesh
B.Sc. in Computer Science and Engineering; GPA: 3.95　　　　　　　　　*Jan. 2006 – Feb. 2011*

PROFESSIONAL EXPERIENCE

PhD Research Intern
Samsung Research America, Mountain View, CA　　　　　　　　　　　　*May 2018 – Aug. 2018*

　　Open Domain Question Answering - Developed an open domain question answering system for Samsung's *Bixby* using a combination of a deep machine reading comprehension model and a deep learning to rank model. **Skills**: Python, Keras.

Applied Machine Learning Intern
Los Alamos National Laboratory, Los Alamos, NM　　　　　　　　　　　*June 2017 – Aug. 2017*

　　Semi-supervised Deep Learning for NLP - Developed a semi-supervised graph-based regularized deep learning model for cancer pathology reports. **Skills**: Python, Keras.

Graduate Research Assistant
University of Texas at Austin, Austin, TX　　　　　　　　　　　　　　　*Aug. 2016 - Present*

　　Answer Selection in Non-factoid Question Answering using Deep Learning - Developed a Convolutional Neural Network (CNN) based approach for non-factoid question answering. **Skills**: Python, Keras.

Graduate Research Assistant
University of Virginia, Charlottesville, VA　　　　　　　　　　　　　　*May 2015 - Aug. 2015*

　　Hidden Topic Sentiment Model. (Rahman and Wang, WWW 2016). **Skills**: Java, Apache OpenNLP.

SELECTED PUBLICATIONS [COMPLETE LIST]

1. **Md Mustafizur Rahman**, Mucahid Kutlu, and Matthew Lease, "Constructing Test Collections using Multi-armed Bandits and Active Learning," *28th International World Wide Web Conference (WWW 2019)*, San Francisco, USA, 2019. [to appear] (*Acceptance Rate: 20%.*)

2. **Md Mustafizur Rahman**, Mucahid Kutlu, Tamer Elsayed, and Matthew Lease, "Efficient Test Collection Construction via Active Learning," September 2018. (under revision for *JASIS&T*)

3. Kezban Dilek Onal, Ye Zhang, Ismail Sengor Altingovde, **Md Mustafizur Rahman**, and others, "Neural Information Retrieval: At the End of the Early Years," *Information Retrieval Journal*, Springer, 2018.

4. Malay Bhattacharyya, Yoshihiko Suhara, **Md Mustafizur Rahman**, and Markus Krause, "Possible Confounds in Word-based Semantic Similarity Test Data," *20th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2017)*, Portland, OR, USA, 2017. Blog: https://humancomputation.com/blog/?p=9492

5. **Md Mustafizur Rahman** and Hongning Wang, "Hidden Topic Sentiment Model," *25th International World Wide Web Conference (WWW 2016)*, Montreal, Canada, 2016. (*Acceptance Rate: 16%.*)

6. **Md Mustafizur Rahman**, Md. Monirul Islam, Kaziyuki Murase and Xin Yao, "Layered Ensemble Architecture for Time Series Forecasting," *IEEE transaction on Systems, Man and Cybernetics*, 46(1): 270–283, 2016.

Skills

Programming language: Java, Python, C, C++, LaTeX, TeX

Deep Learning: CNN, LSTM. Framework - Keras, Scikit-Learn, TensorFlow

Machine Learning: Naïve Bayes, Logistic Regression, Linear Regression, Bagging, Boosting, Random Forest, SVM, K-Nearest Neighbour, K-means, Expectation Maximization (EM), Hidden Markov Model (HMM), Active Learning. Co-training, Self-training, Semi-supervised Learning, Graph Regularization and Reinforcement learning – Multi-Armed Bandit algorithms

Text mining: Probabilistic Latent Semantic Analysis (pLSA)

Operating Systems: Linux