Md Mustafizur Rahman

https://www.ischool.utexas.edu/~nahid/

Email : nahid@utexas.edu
Mobile : +1-434-227-3832

Research Areas

Information Retrieval (IR), Natural Language Processing (NLP), and Deep Learning

Education

University of Texas at Austin — Austin, TX
Ph.D. in Information Science (in progress); GPA: 3.81 — *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

Applied Machine Learning Intern
Los Alamos National Laboratory, Los Alamos, NM — *Summer 2017*

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

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

Efficient Test Collection Construction via Active Learning. (Rahman et al., arXiv:1801.05605, January 2018). **Skills**: Python, Indri, Active Learning.

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 — *Summer 2015*

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

Selected Publications [Complete List]

1. Onal, Zhang, Alingovde, **Rahman**, and others, "Neural Information Retrieval: At the End of the Early Years," *Information Retrieval*, Springer, 2018.
2. **Md Mustafizur Rahman**, Mucahid Kutlu, Tamer Elsayed, and Matthew Lease, "Efficient Test Collection Construction via Active Learning," Technical report, January 2018. arXiv:1801.05605.
3. 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 Post]
4. **Md Mustafizur Rahman** and Hongning Wang, "Hidden Topic Sentiment Model," *25th International World Wide Web Conference (WWW 2016)*, Montreal, Canada, 2016. (*Acceptance Rate: 16%.*)
5. **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
Deep Learning: CNN, LSTM. Framework - Keras
Machine Learning: Naïve Bayes, Logistic Regression, Linear Regression, SVM, K-Nearest Neighbour, K-means, Expectation Maximization (EM), Hidden Markov Model (HMM), Active Learning. Co-training, Self-training, Semi-supervised Learning and Graph Regularization
Text mining: Probabilistic Latent Semantic Analysis (pLSA)