Md Mustafizur Rahman

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

EDUCATION

University of Texas at Austin

PhD in Information Science; GPA: 3.94 (Expected August 2021)

University of Virginia

Masters in Computer Science; GPA: 3.72

Bangladesh University of Engineering and Technology

M.Sc. in Computer Science and Engineering; GPA: 3.83

Bangladesh University of Engineering and Technology

B.Sc. in Computer Science and Engineering; GPA: 3.95

Professional Experience

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.

Researcher Intern

Bing Core Relevance, Microsoft, Sunnyvale, CA

June 2019 - August 2019

Question Answering using BERT and Multi-tasking - Worked on Bing's Tail question answering module using BERT via Multi-tasking. Skills: Python, TensorFlow.

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 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, "Understanding and Predicting the Characteristics of Test Collections," in preparation
- 2. Md Mustafizur Rahman, Mucahid Kutlu, and Matthew Lease, "Efficient Test Collection Construction via Active Learning," 10th International Conference on The Theory of Information Retrieval (ICTIR 2020), Stavanger, Norway, 2020.
- 3. 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. (Acceptance Rate: 20%.)
- 4. 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.
- 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

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Austin, TX

Aug. 2016 - Present

Charlottesville, VA Aug. 2014 - May 2016

Dhaka, Bangladesh

Dhaka, Bangladesh

Jan. 2006 - Feb. 2011

Mar. 2011 - Aug. 2013

- 6. Md Mustafizur Rahman and Hongning Wang, "Hidden Topic Sentiment Model," 25th International World Wide Web Conference (WWW 2016), Montreal, Canada, 2016. (Acceptance Rate: 16%.)
- 7. 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, A/B Testing

Text mining: Probabilistic Latent Semantic Analysis (pLSA)

Operating Systems: Windows, Linux