Md Mustafizur Rahman

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OBJECTIVE

Seeking an internship position for summer 2019 in the area of Deep Learning, Information Retrieval (IR), and Natural Language Processing (NLP)

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 Collection using Multi-armed Bandit and Active Learning," November 2018. (under review for *WWW 2019*)

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++

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)