

Md Mustafizur Rahman

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EDUCATION

UNIV. OF TEXAS AT AUSTIN

PHD IN INFORMATION SCIENCE

Fall, 2016 - Present | Austin, TX
Conc. in Information Retrieval using Deep Learning

UNIVERSITY OF VIRGINIA

MASTERS IN COMPUTER SCIENCE

May, 2016 | CGPA: 3.72 / 4.0
Conc. in Text Mining.

BANGLADESH UNIV. OF ENGG. & TECH.

M.Sc. IN COMPUTER SCIENCE & ENGINEERING

Aug 2013 | CGPA: 3.83 / 4.0

B.Sc. IN COMPUTER SCIENCE & ENGINEERING

Feb 2011 | CGPA: 3.95 / 4.0

SKILLS

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

Scientific Computing: Matlab, WEKA

Deep Learning: Keras, TensorFlow

Open Source Packages: Apache Lucene, Apache OpenNLP

Web Programming: HTML, CSS, PHP, Jade, JavaScript, Node.js

Data Mining/Machine Learning: Naive Bayes, Logistic Regression, Linear Regression, Neural Networks, SVM, K-Nearest Neighbour, K-means, Expectation Maximization (EM), Hidden Markov Model, Natural Language Processing (NLP)

Text mining: Language Model, Probabilistic Latent Semantic Analysis (pLSA), Latent Dirichlet Allocation (LDA)

Version Control: Git

Project Build Tools: Apache Maven

Operating Systems: Microsoft Windows, Linux

EXPERIENCE

LOS ALAMOS NATIONAL LABORATORY | APPLIED MACHINE

LEARNING INTERN

SEMI-SUPERVISED DEEP LEARNING FOR DEEP-NLP | June 2017 -

August 2017 | Los Alamos, NM

-Developed semi-supervised graph based regularization deep learning model that leverages both labeled and unlabeled data points

-Extracted clinical information from cancer pathology reports for automatic cancer type and site detection

UNIVERSITY OF TEXAS | GRADUATE RESEARCH ASSISTANT

August 2016 - Present | Austin, TX

ATTENTION-BASED LEARNING TO RANK | December 2016 - Present

-Developing an attention-based model to find out the important part of a document by using the rationale

LEVERAGING ACTIVE LEARNING FOR LABELING TREC AD-HOC

DATA-SET | December 2016 - May 2017

-NIST evaluates relevance judgment only for a set of documents in a collection because human evaluation is costly. The purpose of this project is to develop an active learning approach which will find out the fine-grained balance between cost and gold-data set collection

ANSWER SELECTION IN NON-FACTOID QUESTION ANSWERING

USING DEEP LEARNING | October 2016 - December 2016

-Applied Convolutional Neural Network (CNN) on Non-factoid Question Answering

-Leveraged word embedding for semantic representation

-Performed answer selection using similarity measure between the semantic vector of questions and answers

UNIVERSITY OF VIRGINIA | GRADUATE RESEARCH ASSISTANT

August 2014 - May 2016 | Charlottesville, VA

TOPIC MODELING FOR UNSTRUCTURED USERS' REVIEWS |

January 2015 - October 2015

-Developed a Markov model based topic model which captures transition of users' sentiment on sentence by sentence

SELECTED PUBLICATIONS

CONFERENCE PROCEEDING | January 2015 - October 2015

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

<http://dl.acm.org/citation.cfm?id=2883072>

JOURNAL | April 2012 - May 2013

Md. Mustafizur Rahman, Md. Monirul Islam, Kazuyuki Murase and Xin Yao, "Layered Ensemble Architecture for Time Series Forecasting," *IEEE transaction on Systems, Man and Cybernetics*, February 24, 2015.[Online].

<http://dx.doi.org/10.1109/TCYB.2015.2401038>

REFERENCES

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Dr. Hongning Wang
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