Mounica Maddela

✉ maddela.4@osu.edu

🌐 https://mounicam.github.io/

in https://www.linkedin.com/in/mounica-maddela-2485aa90/

INTERESTS	Natural Language Processing, Machine Learning and Social Media.	
EDUCATION	**The Ohio State University**, Columbus, Ohio, USA	2017-present
	Ph.D. in Computer Science and Engineering	
	GPA - 3.94 / 4.00	
	University of Pennsylvania, Philadelphia, Pennsylvania, USA	2013-2015
	Master of Science in Computer and Information Science	
	GPA - 3.64 / 4.00	
	International Institute of Information Technology, Hyderabad, India	2009-2013
	Bachelor of Technology(Honors) in Computer Science and Engineering	
	GPA - 9.07 / 10.00	

PUBLICATIONS

Multi-task Pairwise Neural Ranking for Hashtag Segmentation
Mounica Maddela, Wei Xu and Daniel Preoţiuc-Pietro
Proceedings of ACL 2019, long paper

A Word-Complexity Lexicon and A Neural Readability Ranking Model for Lexical Simplification.
Mounica Maddela and Wei Xu
Proceedings of EMNLP 2018, long paper

RESEARCH EXPERIENCE

Graduate Research Assistant, OSU   08/2017 - present
Advisor: Dr. Wei Xu

1) Text Simplification   05/2019 - present
Currently, working on novel neural models for sentence simplification.

2) Hashtag Segmentation   08/2018 - 05/2019
Developed a novel neural model to break a hashtag into its constituent words. Our approach addresses the diverse language style expressed in social media and also adapts to the hashtag type by using different features for single and multi-word hashtags.

3) Lexical Simplification   06/2017 - 07/2018
Designed a neural model called "Neural Readability Ranker" to replace complex words in a sentence with their simpler alternatives. Unlike the previous work, which depends solely on heuristics, our approach uses a combination of human judgments and linguistic features to estimate the complexity of any given word or phrase.

Independent Study Project, UPENN   01/2014 - 05/2015
Advisor: Dr. Lyle Ungar
Captured the different sources and interpretations of well-being across various countries by analyzing the distribution of sentiment words.

INDUSTRY EXPERIENCE	**Software Development Engineer II**	06/2015 - 07/2017

Software Development Engineer II   06/2015 - 07/2017
Big Data Technologies, Amazon, Seattle
Improved job monitoring experience in DataNet, one of Amazon's internal data management systems. Migrated the back-end legacy systems in DataNet from Oracle to Amazon Web Services.

Software Development Intern   06/2014 - 08/2014
Big Data Technologies, Amazon, Seattle
Developed natural language interface to help customers communicate with Grasshopper, a SQL query builder system.

Text Mining Intern   06/2013 - 08/2013
SetuServ, Hyderabad, India
Worked on text analytics tasks like sentiment analysis of tweets posted during a clinical conference and categorization of credit card transactions.

AWARDS

The Ohio State University PhD Fellowship for 2017-2018

Research Award for undergraduate students at IIIT-H for 2011-2012

Deans Academic Award List for all the 8 semesters (Fall 2009 - Spring 2013)

TECHNICAL SKILLS

Programming Languages : Python, Java, C++, C, MATLAB

NLP and Data Mining Tools : Fairseq, PyTorch, Stanford CoreNLP, Stanford Topic Modelling Toolbox, MALLET, Scikit, NLTK, WEKA Version 3.7

Cloud Computing : Amazon EC2, Amazon CloudSearch.

TALKS

Multi-task Pairwise Neural Ranking for Hashtag Segmentation
AI Seminar, OSU, August 2019

A Word-Complexity Lexicon and A Neural Readability Ranking Model for Lexical Simplification
AI Seminar, OSU, October 2018
Clippers Meeting, OSU, November 2018
Midwest Speech and Language Days, May 2019

Lexical Simplification
Guest Speaker, CSE 3521, March 2019

SERVICES

Reviewer for AAAI 2020, NAACL 2019, EMNLP 2019
Reviewer for the 5th Workshop on Noisy User-Generated Text (W-NUT) 2019
Women in Engineering Graduate Council Member

AFFILIATIONS

Association for Computational Linguistics (ACL)

TEACHING

Graduate Teaching Assistant for Speech and Language Processing (OSU)

Graduate Teaching Assistant for Internet and Web Systems (UPENN)

Graduate Teaching Assistant for Computational Linguistics (UPENN)

Undergraduate Teaching Assistant for Introduction to Databases (IIIT)