Jeniya Tabassum

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RESEARCH INTERESTS	Natural Language Processing, Machine Learning, Social Media Analysis, Information Retrieval

EDUCATION

The Ohio State University (OSU) December 2020
◇ Ph.D. in Computer Science and Engineering
◇ Thesis: Information Extraction From User Generated Noisy Texts (pdf)
◇ Co-advised by Alan Ritter & Wei Xu

Bangladesh University of Engineering and Technology (BUET) April 2012
◇ B.S. in Computer Science and Engineering
◇ CGPA: 3.87/4.00 (top 5%)

RELEVANT SKILLS

◇ **Languages**: Python, Java, R, Matlab
◇ **Frameworks**: PyTorch, Huggingface, Keras, Scipy, SK-Learn, Weka
◇ **Tools**: Git, Bitbucket, PyCharm, Ecilpse

RESEARCH EXPERIENCE

Graduate Research Assistant, OSU

◇ Fine Grained Entity Extraction From Software Text (code / data) 2018-2020

    – Built the first ever software domain named-entity corpus with **15k+** sentences
    – Proposed an embedding level attention for the NER transformer
    – Achieved **F1 Score of 78.41** [21.6 increase over vanilla BERT]
    – Developed a web demo

◇ Entity and Relation Extraction From Wet Lab Protocol (code / data) 2019-2020

    – Built an entity-relation corpus for the procedural texts from **700+** lab recipes
    – Organized shared task at EMNLP '20 (15 participants)
    – Developed Ensemble models for both task
    – Achieved **F1 Score of 76.84** for NER task
    – Achieved **F1 Score of 81.32** for RE task [current SOTA]

◇ User Profile Mining From Twitter (code / data) 2018-2019

    – Modeled the spread of information through Tweets
    – Analyzed the tweets from **40M+** users to evaluate their human vs bot score
    – Created Twitter API tutorial

◇ Learning Semantics From Software Social Networks (code / data) 2017-2018

    – Extracted proximity from the followers activity of **84M+** Github repositories
    – Proposed **Repository Embedding** to evaluate similarities in repositories
    – Created embeddings by analyzing text content from repository-user network

◇ Time Information Resolution From Tweets (code / data) 2015-2017

    – Created Temporal Tagger to detect & and normalize tweet time expressions
    – Adapted the distant supervision approach for the date resolution task
    – Achieved **F1 Score of 68.12** [17% increase over SUTIME]

Undergraduate Research Assistant, BUET

⋄ Social Media on Disaster Response

  – Explored the impact of social media in solving disaster related problems
  – Proposed co-ordinated approach of relief distribution by repetitive reduction

⋄ Web Community Extraction

  – Proposed a novel extraction and ranking algorithm for web communities
  – Demonstrated improvement in auctions of a sponsored search market

Selected Publications

Jeniya Tabassum, Mounica Maddela, Wei Xu and Alan Ritter
"Code and Named Entity Recognition in StackOverflow"
Proceedings of ACL 2020 (pdf / slides / talk)

Jeniya Tabassum, Sydney Lee, Wei Xu and Alan Ritter
"WNUT-2020 Task 1 Overview: Extracting Entities and Relations from Wet Lab Protocols"
Proceedings of WNUT @ EMNLP 2020 (pdf / slides / poster)

Jeniya Tabassum, Alan Ritter and Wei Xu
"Time Expression Resolution for Social Media Data"
Proceedings of WiNLP @ ACL 2017 (pdf / poster)

Jeniya Tabassum, Alan Ritter and Wei Xu
"TweeTIME: A Minimally Supervised Method for Recognizing and Normalizing Time Expressions in Twitter"
Proceedings of EMNLP 2016 (pdf / slides / talk)

Jeniya Tabassum and Alan Ritter
"Distant Supervision for Temporal Resolution"
Proceedings of MASC-SLL 2016 (pdf / poster)

Jeniya Tabassum, Himel Dev, Mohammed Eunus Ali and Md. Fahim Abdullah
"Role of Social Media in Disaster Response in the Context of Savar Tragedy"
Proceedings of WADM 2013 (pdf)

Asif Salekin, **Jeniya Tabassum** and Masud Hasan
"Extract and Rank Web Communities"
Proceedings of WIMS 2013 (pdf / talk)

Services

⋄ Organizer, Shared Task @ WNUT '20
⋄ Student Chair: ACL Student Reseach Workshop '18
⋄ Panel Member at WIE session, ICCIT '16
⋄ Student Organizer: NLP Speaker Series at OSU, '16-'17
⋄ Reviewer: NAACL '18-'21, EMNLP '18-'20, ACL '19-'20, AAAI '20, HCC '19.
⋄ Program Committee: WiNLP '19-'20, NAACL-SRW '19, WNUT '16-20, MASC-SLL '16.

Travel Grants

ACL D&I ('20), Google ('17), Wi-NLP ('17), CRA-Women ('16)

Invited Talks

NLP on Noisy User-generated text - NER for StackOverflow
Aggregate Intellect AISC, July 2020 (talk)

Temporal Normalization from Noisy Twitter Text
Bangla-AI, September 2018

Minimally Supervised Time Expression Resolution for Social Media Domain
Georgetown University, April 2017

Probabilistic Graphical Model with Latent Variables for Temporal Tagging
Guest Lecturer for CSE 5535, OSU, March 2017

Distant Supervision for Temporal Resolution
Clippers Meeting, OSU, October 2016

Minimally Supervised Temporal Recognizer and Normalizer
AI seminar, OSU, September 2016

TEACHING EXPERIENCE	**Senior Lecturer, The Ohio State University**	SP '21
	⋄ CSE-5521: Artificial Intelligence (Intermediate)	
	Instructor, The Ohio State University	SP '20, AU '20
	⋄ CSE-3521: Artificial Intelligence (Basic)	
	Graduate Teaching Associate, The Ohio State University	AU '19
	⋄ CSE-6944: Artificial Intelligence (Advanced)	
	Graduate Teaching Associate, The Ohio State University	SP '16
	⋄ CSE-2111: Modeling and Problem Solving with Database	
	Graduate Teaching Associate, The Ohio State University	AU '15
	⋄ CSE-5431: Introduction to Operating Systems	
	Lecturer, Ahsanullah University of Science and Technology	AU '12 - SP '14
	⋄ CSE-401: Computer Networks	
	⋄ CSE-410: Pattern Recognition Lab	
	⋄ CSE-408: Artificial Intelligence Lab	
AWARDS	⋄ **Champion**, Dhaka Divisional Math Olympiad	2006
	⋄ **2nd runner up**, National Math Olympiad	2006
	⋄ **2nd runner up**, Dhaka Divisional Math Olympiad	2004, 2005
ACADEMIC HONORS	⋄ **University Merit Scholarship** for academic excellence in all semesters, BUET.	
	⋄ **Dhaka Education Board Scholarship** for excellence in the HSC examination, 2006.	
	⋄ **Dhaka Education Board Scholarship** for excellence in the SSC examination, 2004.	
VOLUNTEER ACTIVITIES	⋄ Vice President of GWCS, 2019-2020	
	⋄ Member of organizing committee of CSE Festival BUET, 2011	
	⋄ Trainer in National Math Camp, 2007	
	⋄ Coordinator of Viquarunnisa Science Club, 2006-2007	
REFERENCES	Available upon request	