

JENIYA TABASSUM

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- ◇ 5+ years of hands-on experience in building machine learning for large scale user generated texts
- ◇ 3+ years of experience in developing novel deep learning models
- ◇ Proficient in PyTorch, Keras, Huggingface frameworks

EDUCATION

The Ohio State University (OSU) , Columbus, Ohio, USA	12/2020
Ph.D. in Computer Science and Engineering	
Thesis: Information Extraction From User Generated Noisy Texts (dissertation)	
Bangladesh University of Engineering and Technology (BUET) , Dhaka, Bangladesh	04/2012
B.S. in Computer Science and Engineering	
CGPA: 3.87/4.00 (top 5%)	

TECHNICAL SKILLS

- ◇ Programming Languages: **Python**, Java, Scala, R, Matlab.
- ◇ NLP and Deep learning libraries: **PyTorch**, **HuggingFace**, Keras, Tensorflow, Stanford CoreNLP, Weka, Scipy, Scikit, NLTK, TweepPy
- ◇ Database: Oracle, MySQL, JSON

RESEARCH EXPERIENCE

Graduate Research Assistant, OSU (Advisors: Prof. Wei Xu & Prof. Alan Ritter)	08/2014 - 12/2020
◇ Fine Grained Entity Extraction From Software Text (web-demo / code / data / paper / talk)	
– Lead a team of 4 annotators to create the first software domain named-entity corpus with 15k+ StackOverflow sentences	
– Proposed an embedding level attention for the transformer based NER model	
– Proposed model achieved F1 Score of 78.41 with 21.6 increase over vanilla BERT (current State of the Art)	
– Tools: Python, PyTorch, Huggingface, Javascript, Tornado, Brat	
◇ Entity and Relation Extraction From Wet Lab Protocol (code / data / paper)	
– Lead a team of 3 annotators to create an entity-relation corpus for the procedural texts from 700+ wet lab recipes	
– Developed neural ensemble models for both task	
– Proposed model achieved F1 Score of 76.84 for NER task and F1 Score of 81.32 for RE task (current State of the Art)	
– Tools: Python, PyTorch Scikit, Brat	
◇ Time Information Resolution From Tweets (code / data / paper / talk)	
– Developed a temporal tagger to detect & and normalize tweet time expressions by utilizing the distant supervision approach	
– Developed a date resolver that can combine the numerical date features with word vectors via bi-linear BiLSTM model	
– Proposed model achieved F1 Score of 68.12 with 17% increase over SUTIME (current State of the Art)	
– Tools: Python, Keras, Tensorflow, Scala, Sklearn	
◇ User Profile Mining From Twitter (code / data)	
– Modeled the spread of information through tweets	
– Analyzed the tweets from 40M+ users to evaluate whether the profile is controlled by human or bots	
– Tools: Python, Tweepy, Humanizr, Botometer	
◇ Learning Semantics From Software Social Networks (code / data)	
– Extracted proximity from the followers activity of 84M+ GitHub repositories	
– Created user embeddings and repository embeddings from the text contents of the repository-user network	
– Utilized the proposed repository embedding to evaluate similarities in between repositories	
– Tools: Python, PyGithub, Numpy	
Undergraduate Research Assistant, BUET (Advisors: Prof. Masud Hasan & Prof. Eunus Ali)	02/2010 - 06/2013
◇ Social Media on Disaster Response (paper)	
– Explored the impact of social media in solving disaster related problem by analyzing the Facebook posts on the Savar Tragedy	
– Proposed an approach to co-ordinate the relief distribution by filtering out the repetitive post	
– Tools: Python, LIWC, R	
◇ Web Community Extraction (paper / talk)	
– Proposed a novel extraction and ranking algorithm for web communities	
– Demonstrated improvement in auctions of a sponsored search market by utilizing the proposed algorithm	
– Tools: Java, Matlab	

PUBLICATIONS

- ◇ **Jeniya Tabassum**, Mounica Maddela, Wei Xu and Alan Ritter, “[Code and Named Entity Recognition in StackOverflow](#),” [ACL '20](#).
- ◇ **Jeniya Tabassum**, Syndey Lee, Wei Xu and Alan Ritter, “[WNUT-2020 Task 1 Overview: Extracting Entities and Relations from Wet Lab Protocols](#),” [WNUT @ EMNLP '20](#).
- ◇ **Jeniya Tabassum**, Alan Ritter and Wei Xu, “[Time Expression Resolution for Social Media Data](#),” [WiNLP @ ACL '17](#).
- ◇ **Jeniya Tabassum**, Alan Ritter and Wei Xu, “[TweeTIME: Minimally Supervised Method for Recognizing and Normalizing Time Expressions in Twitter](#),” [EMNLP '16](#).
- ◇ **Jeniya Tabassum** and Alan Ritter, “[Distant Supervision for Temporal Resolution](#),” [MASC-SLL '16](#).
- ◇ Asif Salekin, **Jeniya Tabassum** and Masud Hasan, “[Extract and Rank Web Communities](#),” [WIMS '13](#).
- ◇ **Jeniya Tabassum**, Himel Dev, Mohammed Eunus Ali and Md. Fahim Abdullah, “[Role of Social Media during Disaster in the Context of Savar Tragedy](#),” [WADM '13](#).

PROFESSIONAL EXPERIENCE

Senior Lecturer, OSU, CSE	01/2021 - present
◇ Instructed the course on “ Introduction to AI (Intermediate Concepts) ” to a class of 120 students	
◇ Supervised 25+ student projects	
Lecturer, OSU, CSE	01/2020 - 12/2020
◇ Instructed the course on “ Introduction to AI (Basic Concepts) ” to a class of 40 students	
◇ Designed 4 programming assignments to evaluate the student understanding of AI concepts	
◇ Collaborated with faculty supervisors to update the syllabus and create the course contents with current ML algorithms	

SERVICES

- ◇ Reviewer/Program Committee: [ACL '18-'20](#), [EMNLP '19-'20](#), [AAAI '20-'21](#), [NAACL '19-'21](#), [W-NUT '16-'20](#), [SRW '19-'20](#)
- ◇ Student Chair: [ACL-SRW '18](#)
- ◇ Student Organizer: [ACL-SRW '18](#), [NLP Speaker Series](#) (OSU) [['16](#) - ['18](#)]
- ◇ Vice President: Graduate Women in Computer Science (OSU) [['19](#)- ['20](#)]