

JENIYA TABASSUM

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- ◇ 5+ years of hands-on experience in building novel machine models for large scale noisy text data
- ◇ 3+ years of experience in developing novel deep learning models for text information retrieval
- ◇ 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 & Tool: Oracle, MySQL, **Bash**, **Git**, **Github**

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: [NLP Speaker Series](#) (OSU) ['16 - '18]
- ◇ Vice President: Graduate Women in Computer Science (OSU) ['19- '20]