Ananya Ganesh

github.com/ananyaganesh

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EDUCATION

University of Massachusetts, Amherst — Amherst, MA
Master of Science in Computer Science; GPA: 3.6/4.0 — *Expected May 2019*

Anna University — Chennai, India
Bachelor of Engineering in Computer Science; GPA: 8.3/10.0 — *Aug 2013 – Jun 2017*

PUBLICATIONS

Haw-Shiuan Chang, Amol Agarwal, **Ananya Ganesh**, Anirudha Desai, Vinayak Mathur, Alfred Hough, and Andrew McCallum. Efficient graph-based word sense induction by distributional inclusion vector embeddings. *TextGraphs 2018 at NAACL-HLT*

EXPERIENCE

Information Extraction and Synthesis Laboratory — UMass Amherst
Research Intern — *May 2018 - Present*
Working on improving a neural model for semantic role labeling (LISA) through learning better representations by integrating information from fine grained labels using attention.

Lexalytics — Amherst, MA
Independent study, NLP — *Jan 2018 - Apr 2018*
Performed word sense disambiguation for sentiment analysis applications using non-negative word embeddings that capture multiple senses per word.

Nara Institute of Science and Technology — Nara, Japan
Research Intern, NLP — *Jun 2016 - July 2016*
Constructed a dictionary of flexible multi-word expressions (MWEs) in English for use in automatic annotation. Implemented a rule-based model to detect variability in MWEs using the LDC Gigaword corpus.

Serendio Inc. — Chennai, India
Data Science Intern — *Dec 2015 - Jan 2016*
Predicted trends in currency exchange rates by performing sentiment analysis of posts on financial forums and Twitter using machine learning and natural language processing.

SKILLS

Python, TensorFlow, scikit-learn, numpy, Git, LaTex, Java, PyTorch, NLTK, C++, Matlab, Tableau, HTML

PROJECTS

Semantic Role Labeling using Dilated Convolutions — IESL, UMass Amherst
Python, TensorFlow — *Mar 2018 - May 2018*
Incorporated dilated convolutions into a neural model that performs semantic role labeling (LISA) resulting in a speed-up of 3x over an existing LSTM based model.

Low-shot learning for face recognition — Course Project, Neural Networks
Python, PyTorch — *Feb 2018 - Apr 2018*
Implemented a hallucination based approach for low shot learning for face recognition that was originally proposed by Facebook AI Research for image classification. Achieved a 4% improvement over a baseline model while using only 20% of the training data.

The Sound of Sirens — HackUMass Five: 36 hour hackathon
Tensorflow, Myo SDK, Amazon EC2 GPU — *Nov 2017*
Built a signaling system using neural networks to assist hearing impaired drivers, which causes an armband to vibrate if sirens are recognized nearby.