

Ananya Ganesh

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EDUCATION

- **University of Massachusetts, Amherst** Amherst, MA
Master of Science in Computer Science; GPA: 3.6/4.0 Sep 2017 – Present
- **Anna University** Chennai, India
Bachelor of Engineering in Computer Science; GPA: 8.3/10.0 Aug 2013 – Jun 2017

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.
Results accepted to TextGraphs 2018 at NAACL: [Efficient Graph based Word Sense Induction by Distributional Inclusion Vector Embeddings](#)
- **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.
- **CEGAR-based tool for model checking** Institute of Mathematical Sciences, Chennai
C++, Lex, YACC, NuSMV Oct 2016 - Apr 2017
Implemented a Counter-Example Guided Abstraction Refinement mechanism to specify properties for model checking. Generated linear temporal logic formulae from visual representations of properties iteratively.