Ananya Ganesh

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EDUCATION

- **University of Massachusetts, Amherst** — Amherst, MA
  Master of Science in Computer Science — *Expected May 2019*

- **Anna University** — Chennai, India
  Bachelor of Engineering in Computer Science — *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, Natural Language Processing — *May 2018 - Present*
  Developing novel role representations for the task of semantic role labeling (SRL) using multi-task learning. Performed error analysis on a state-of-the-art SRL system and identified areas for improvement.

- **Lexalytics** — Amherst, MA
  Independent study — *Jan 2018 - Apr 2018*
  Developed an efficient new method to perform word sense induction using graph-based clustering. Achieved state-of-the-art results across three evaluation benchmarks

- **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, Java, PyTorch, NLTK, C++, Matlab, Tableau, HTML, SQL

PROJECTS

- **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.

- **Question duplication for the Quora dataset** — Course Project, Advanced NLP
  Python, PyTorch — *Apr 2018 - May 2018*
  Implemented a Siamese LSTM network to detect duplicate questions on Quora with high accuracy. Also detected important features that decide duplicates, such as W-h question type.

- **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.