

Spring 2020

CMPE 297-6 Natural Language Processing

Day/Time: Wednesday 6:00 pm – 8:45 pm

Credit: 3

Instructor: Dr. Shih Yu Chang

Description: This course is about concepts, algorithms and applications for natural language processing (NLP). Several important NLP techniques such as text classification, language modeling, vector semantics, word embedding, sequence labeling, POS tagging, semantic parsing, wordnet, machine translation, and advanced topics, will be introduced. Students will be able to

- Discuss and apply NLP concepts and techniques using state-of-the-art technologies and platforms.
- Discriminate between, select and use modern NLP tools, such as Scikit-Learn, NLTK, spaCy, Tensorflow and Keras to solve NLP problems.
- Implement NLP-related algorithms such as text classification, through feature engineering, and parameter tuning.
- Define problems and design and implement solutions for NLP applications.

