Introduction to NLP Course

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Course objectives

- Provide to students a big picture understanding of NLP field
- Students understand essential knowledge and techniques in building NLP models such as POS tagging, text classification, syntax parsing, etc.
- Students can implement some NLP models using Python and NLP/Machine Learning frameworks

Syllabus

- Lecture slides
- Textbooks:

  (**SLP3**) Jurafsky, D., & Martin, J. H. (2014). Speech and language processing (Vol. 3). London: Pearson. Online version: https://web.stanford.edu/~jurafsky/slp3

  (**Jacob**) Jacob Eisenstein, Natural Language Processing, November 13, 2018 draft.

  (**IR**) Christopher D. Manning, Prabhakar Raghavan and Hinrich Schutze, Introduction to Information Retrieval, Cambridge University Press. 2008. Online version: https://nlp.stanford.edu/IR-book/information-retrieval-book.html

- Online blogs, tutorials, github, kaggle

Prerequisites

- Programming proficiency
- Simple linear algebra (vectors, matrices)
- Basic probability theory

Grading Policy

- Attendance: 10%
- Programming Assignments: 40%
- Final exam: 50%

Lecture Logistics

- Lecture time: 13:00 - 15:45 on Saturday
- Course information are on Google docs
  - https://tinyurl.com/325p6pvc
- Use Google Classroom for announcements, Programming Assignments
  - Class code: 5en4wes
  - Must use personal Google account to join the class