

CS5560 Knowledge Discovery and Management

Problem Set (PS-1B)

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1. Given the text example below, show the following NLP operations.
 - a. Sentence detection/Tokenization
 - b. Lemmatization
 - c. POS tagging/Chunking
 - d. Parsing
 - e. Name Entity Recognition
 - f. Co-reference Resolution
2. Summarize and draw a knowledge graph.

CHICAGO (AP) — Citing high fuel prices, United Airlines said Friday it has increased fares by \$6 per round trip on flights to some cities also served by lower-cost carriers. American Airlines, a unit AMR, immediately matched the move, spokesman Tim Wagner said. United, a unit of UAL, said the increase took effect Thursday night and applies to most routes where it competes against discount carriers, such as Chicago to Dallas and Atlanta and Denver to San Francisco, Los Angeles and New York.

① Natural language processing refers to the use and ability of systems to process sentences in a natural language such as English, rather than in a specialized artificial computer language such as C++.

It involves.

- a) Tokenization: tokenizing text into words.
- b) Lemmatization/Stemming: