CS5560 Knowledge Discovery and Management

In-Class-Exercise (ICE-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.

June 12,17 (55560 Knowledge Discovery and Mangement In-class-Exescise (ICE-IB) SAITEJA MAKANI Nomber-12 a. Sentence detection/Tokenization. - A text can be Tokenized into different sentences by ". So in the give text we have 3 Sentences only. For non-English it is increidbly difficult. b. Lemmatization: In linguistics is the process of grouping the inflected forms of a word so they can be analysed as a single item, identified by the coord's lemma. Citing - cit | Sometime lemmatization. increased - increase results in a non-meaning competes - compete ful words too. carriers - carrier applies - appli c. pos tagging (chunking: Finding Pasts of speech is NLP. An example is shown on the rain challenge en

> NNP VBD UBD IN NNP TO NNP CC NNP NNP John was born in Liverpool, to Julia and Alfredlennon

below.

UBD UBD NWP UBD NWP NWP UBD DAY citing high Fuel prices, United Airlines Said friday TO NUM UBD UBD NBD NBD NBD NBD UBD UBD UBD NBD NBD UBD UBD UBD NBD COST COST UBD CArriers.

d. Passing: It is the process of soring trees using Features like Lexicals and Structure. Predicting over search and greedy, Spanning trees,

e. Name Entity Recognition: Identifying Names, entities in a text Based on context of the text.

Facility - united Airtines

- American Airlines

- AMR
- united
- UAL

Localian - chicago
- Dallas
- Atlanta
- Denver

- Sanfranciso

-los angeles

- New YOOK

F. Co-se Fesence Resolution; Finding the citings that are referring from the same of different sontened to the same named Entity. 10-88 F ex: John read a book, He wrote sourcesy of it. 10-800 2. knowledge groph: united Airlines Tim wagnes American price Airlines Match AMR Unit Fuel cost increased Chicage Denver Sanfrancisco Tios Angles Dallas Atlanta