Assignment 3 Named-Entity Identification

CS626: Speech and Natural Language Processing and the Web

Problem statement

- Perform Named-Entity Identification using SVM classifier with appropriate feature engineering
- **Dataset**: CoNLL NER Data; https://paperswithcode.com/dataset/conll-2003 and https://huggingface.co/datasets/conll2003 (they are same data, but have common and distinct information)
- Input: A sentence
- Output: Name-No Name tagged for each word in the sentence
- Example:
 - Input: Delhi is the capital of India.
 - Output: Delhi 1 is 0 the 0 capital 0 of 0 India 1.0
- Important: You will need to design the features appropriately so that the feature vector is able to distinguish name from no-name. For example, capitalization is a strong feature, though not all-powerful because starting words in a sentence can have capitalization. Think well on feature engineering.
- Create a document which reports the following
 - o P, R, F1-scores
 - o Perform detailed error analysis
 - Write a short paragraph on your learning.

Submission instructions

- The submission link will be created on moodle to submit the assignment
- Only one person from the group with the lowest id is supposed to make the submission
- The name of the folder should be <id1 id2 id3> Assignment3.zip
 - o The uncompressed folder should contain code, readme and the slides used for presentation
 - The readme should contain details about the tools, versions, pre-requisites if any, and how to run the code for both approaches.

Deadline

• No-Hard deadline (Continuous Evaluation). Evaluation date will be announced soon.