

Artificial Intelligence - cs3705

Dependency Analysis of Sentences

Description:

In this assignment, you need to use (**No need to Train**) the Stanford parser provided and analyze the sentences. You are provided an English Corpus and a Blocks World Corpus. You need to run the parser on both the data and analyze the dependency relations.

For Example, Stanford Parser's output is given below.

Stanford Parser gives a Phrase Structure Tree along with the dependency relations marked.

Eg: For the sentence "The boy hit the ball with a bat", the phrase structure tree is

(ROOT

(S

(NP (DT The) (NN boy))

(VP (VBD hit)

(NP (DT the) (NN ball))

(PP (IN with)

(NP (DT a) (NN bat))))

(. .)))

The dependency relations are

det(boy-2, The-1)

nsubj(hit-3, boy-2)

det(ball-5, the-4)

doobj(hit-3, ball-5)

det(bat-8, a-7)

prep_with(hit-3, bat-8)

You have to analyze how the parser is giving different relations like above i.e., when will it give a particular relation, so that you learn the dependency relations. You need to submit the Output of the parser for both the data and the codes (If Any) you use to run the parser. You will be evaluated on your understanding of the Parser.