Extracting sub-trees from Dependency trees

PROJECT DETAILS

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INTRODUCTION

- Dependency is the notion that linguistic units, e.g. words, are connected to each other by directed links.
- The (finite) verb is taken to be the structural center of clause structure.
- All other syntactic units (words) are either directly or indirectly connected to the verb in terms of the directed links, which are called *dependencies*.

PROBLEM STATEMENT

- The project will involve automatically extracting subtrees from the treebank.
- Generalizing the structures and coming up with a subtree bank representing basic structures.

GOALS

- Automatically extract all subtrees possible from a given tree bank .
- Create a sub-tree bank where each group consists of sub trees based on similar POS tag , CHUNK tag ,for the parent & child and dependency between them .

Methodology

- We used C++ to implement
- When moved on to the generalization
- We started with level 0 sub-trees
- Each Group will have the following info

Parent POS,child POS,Chunk tags ,Dependency.

Methodology

- All similar subtrees having will under a same group
- When we are done with level 0 , we move on to level 1 ,where the child is one of the level 0 groups .

Methodology

- Then we move on to level 2 groups,so on and so forth.
- This continues till we reach the head which is the verb

THANK YOU!