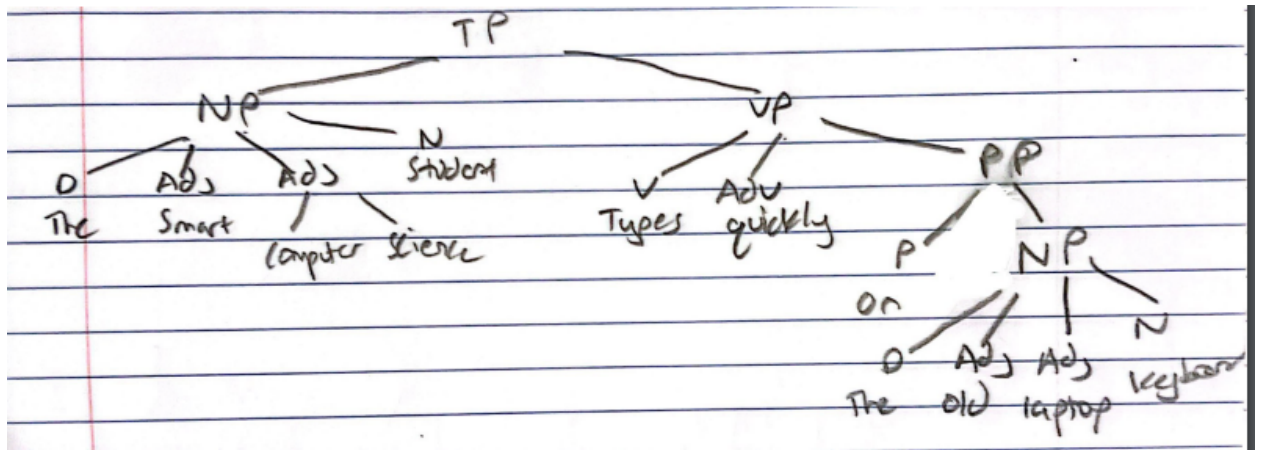
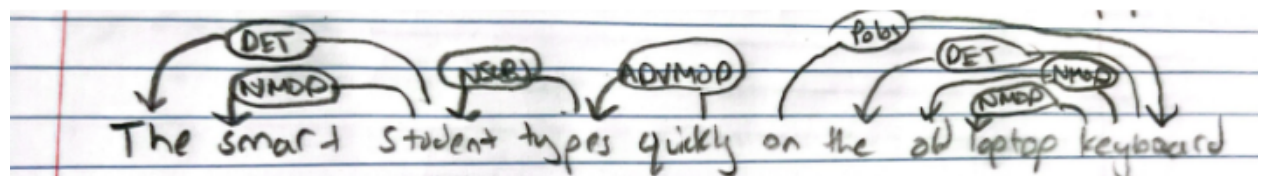


1. The smart computer science student types quickly on the old laptop keyboard.
2. .



3. .



4. Predicate: types  
 arg0 : who types, "student"  
 Arg1: what is being types on :keyboard  
 argM-MNR: quickly  
 argM-loc: old laptop
5. The PSG tree demonstrates the syntax of the sentence in which lead nodes represent the actual words, and by traversing the tree, the grammatical structure of the sentence can be understood. Dependency parsing highlights the relationships between individual words. Semantic role parse is useful to gain insight into the actual meaning of sentences and phrases by investigating how different arguments interact with the predicate.