Assignment 4

L245
Language Tutoring Systems
Searching

Due Tuesday, March 3

1. Do question #6 on p. 88 of the textbook.

2. We talked about using machine learning to predict the correct preposition in English sentence and to predict where commas should be inserted.

   (a) How would we adapt this machine learning strategy for predicting where there should be *the*, *a(n)*, or no article in English?

   (b) Would this approach be a good idea to predict the correct verb form for subject-verb agreement? Why or why not? What about for predicting the correct pronoun in English (e.g., *he* vs. *him* vs. *his*)?

3. Do question #1 in chapter 4 of the textbook (p. 120).

4. **Bonus:** Below is a list of the authors of 7 hypothetical books. So, for example, *knight* and *davis* wrote book 4, but *crean* did not.

   1) knight  5) knight crean
   2) davis   6) davis crean
   3) crean   7) knight davis crean
   4) knight davis

   For each of the following Boolean expressions, write down which author lists match the expression. For example, the Boolean expression *davis* matches 2, 4, 6, and 7.

   (a) knight
   (b) knight AND NOT crean
   (c) knight OR davis OR crean
   (d) knight AND (davis OR crean)
   (e) (knight AND davis) OR crean