Assignment 1

L665/B659: Applying Machine Learning Techniques in CL; Sandra Kuebler

January 20, 2016

- Describe in your own words what the following terms mean. Give examples.

    - supervised – unsupervised ML
    - eager learning – lazy learning
    - descriptive model – predictive model

    15pts.

- Describe how POS tagging is handled as a classification problem. What is the task, what is used as features? Why can you not use the whole sentence as features? **10 pts.**

- Find recent papers on machine learning in CL. 'Recent' here means papers from 2000 or later. Choose 10 papers that cover at least 3 different research questions/areas (such as word sense disambiguation, coreference resolution, semantic role labeling, etc.). Type the references up with information where the paper was publish and where you found it. I want full references! I.e. Just giving me the URL where you found the paper is not enough. A full reference has to include the authors, the title, the year when it was published, the conference/journal, journal volume and issue or conference venue, and pages. Additionally, add one sentence per paper describing which ML algorithm was used.

    Use the following web pages as starting points for your search:

    - ACL anthology: `http://www.aclweb.org/anthology-new/`
    - CiteSeer: `http://citeseer.ist.psu.edu/`
    - Google Scholar (specifically the advanced search!): `http://scholar.google.com/`

    15 pts.

- **DUE DATE**: January 27 before class. Please submit via canvas.