COMS 6998-04, Fall 2012
Statistical NLP for the Web

Project Information


<u>Key Dates :</u>

Sept 19th, 2012 (11:59pm) : Project Proposal Due
Dec 12th, 2012 : Final Project Due

<u>Final Project:</u>

Final project should give you an exciting opportunity to explore a problem of your interest in
Natural Language Processing and/or Machine Learning. The research problem you are
addressing can be theoretical research question or an applied problem in NLP or some
combination of both. Your project cannot be just a programming exercise. The final submission
to the project needs to be an end-to-end web or mobile application. You should be able to
justify the proposed solution in your final report. The project is meant for you to have a learning
experience where you are able to pursue a research topic of your choice in depth and also build
an application that can be useful.

<u>Project Proposal</u>

Project proposal should discuss the research problem you are addressing in detail. You should
show that you have done some literature review pertinent to the research problem. You should
discuss the topics related for the project. Some of these topics could be learning algorithms,
data/corpus, annotation/labeling, evaluation method, etc. You can also discuss why your project
is original and interesting.

Length: Roughly 2 pages

<u>Intermediate Results</u>

Intermediate Results is to help you guide through the steps of your project and give us an idea
about the state of your project. You should clearly state the research question and your proposed
solution. You should describe the corpora you are using for the project and the kinds of
processing you have done it. If you are using any tools you should describe them as well. You
should state the intermediate results you have obtained so far. If the research problem you are
exploring makes it difficult to produce intermediate results you should discuss why this is the
case in detail. You should also provide the rough plan of how you are going to pursue rest of the
project.

Please provide a link to your project directory where we can see your intermediate results,
processed corpora and any other related items that will help us understand your progress in the
project.

Length: Roughly 1 page

Final Project Report

Final project report should be a conference style 8-page paper. The paper template you should use can be downloaded from ACL 2010 website at http://acl2010.org/authors.html. You can use either latex or word document templates. In your report you should describe the problem, discuss related work, theory of your solution, implementation issues, experiments, results, discussion and critical analysis of your work. I would like to stress the fact that critical analysis of others and your work is essential in any successful research endeavor. Hence, you should think about why your solution is better, why some techniques work while some does not, why your research problem could be interesting to others, how can you improve on your solutions, how does it compare with the most recent related work, etc.

You can take a look at ACL or NIPS website for ideas.

http://aclweb.org/anthology-new/
http://nips.cc/Conferences/


Final Project Demo Day

The final project presentation will be held on the last day of classes.

Grading

Grading will be based on the following criteria

Clarity of the problem description
Originality of the proposed solution
Literature review
Description of implementation
Discussions of your experimental results
Critical Analysis of your work


Project Proposal Grade (5% of the total project grade)