Homework 3 - Project Proposal

Machine Learning - CSC 84020 - Spring 2011 - Prof. Rosenberg

Due April 8 at 11:50am

Write a ~500 word proposal for your Final Project.

The proposal should include, minimally, the following

- A description of the task that your experiment will perform.

- An idea for the classification/regression/clustering approach you will be taking. (This is not binding, but propose some ideas.)

- What data you will use for the experiment.

- Address the core challenges and limitations of the project. The core challenges should represent the most germane questions your project is attempting to answer. The limitations are those qualities that either limit the scope of the experiment, or make its processing difficult to execute.

  Example Core Challenges and Limitations: (Note that this is meant as an example of the kind of information to include in Core Challenges and Limitations, not a full proposal.)
  Task: Gathering demographic information from chat participants. This can be used to improved targeted ad delivery during or following chat.
  Core Challenges: 1) Identifying age from chat transcripts. 2) Identifying gender from chat transcripts.
  Limitations: Finding chat transcripts is difficult. Moreover, getting ground-truth information about a participants age and gender adds an additional data requirement that may be difficult to fulfill. If additional data cannot be found I will use chat transcripts between me and my friends. Since these participants don't have a very large age range and are mostly male, the results may not generalize to a wider population.

NOTE: While the length of this proposal is short, it should represent as much work as any other homework assignment.