

Final Project Details
(Details subject to change)

Deadlines:

3/13	Project Proposal (5%)
4/10	Literature Review (optional; for feedback)
4/30	Presentation Slides
5/1	In-class Presentation (10%)
5/3	Final Project (40%)

Overview:

The course project will involve designing (and implementing) a research study. Choose a topic discussed in class or any topic you are interested in. You may work individually or with partners but we recommend working with at least one other student. If you choose to work with other students, you are expected to do a project that is larger in scope than an individual project. Individual projects are acceptable but group projects are highly encouraged as it will allow for a greater contribution and more in-depth project.

Throughout the semester there are deadlines related to the project in order to get feedback.

At the end of this document, there are some examples of project topics and resources where you can access public data.

You will be required to submit all documents on CourseWorks.

Proposal:

Deadline: 3/13, 11:59pm
5% of final course grade

The goal of the project proposal is to outline your plan for the final project in order to get instructor approval. You should turn in a 1 page document plus references (single spaced; 1 inch margins, Times New Roman, 12pt font) describing your initial plan. You should describe the scope and goal of your project and explain why it is an important/interesting problem. Make sure to include:

- goal of the project
- problem you intend to solve
- 2-3 references of prior work that relates to your topic
- data you plan to use
- overview of proposed approach
- evaluation plan (how you will measure the success of your work?)
- timeline for project completion

If you are working in a group, you only need to submit one proposal. In this case, your project needs to be larger in scope than one you would do individually. In your proposal, include all of your names and specify who will be doing which portion of the project.

OPTIONAL Literature Review:

Deadline: 4/10, 4pm

The literature review provides an opportunity to expand on your project proposal with greater detail and to closely examine the relevant prior research. You should turn in a document plus references in the NACL format that you will use for the final report. This should include all relevant previous research on the topic (a minimum of 8 citations, where at least 4 are detailed).

Make sure to provide references of all sources you cite.

If you are working in a group, you only need to submit one literature review. You should include a page after the reference section that describes each participant's contribution to the literature review.

If you have only written part of your literature review, but still want feedback, that is fine. Make note of that on the top of the document so the instructor is aware.

Final Project Presentation (10%)

Deadline: 5/1 (in class); possible additional class date/time added

For the project presentation, you should plan a presentation with slides. Students working alone will be given 5 minutes; groups (depending on size) will be given 8-10 minutes. Note that time will be strictly enforced so that there is time for everyone to present. The presentation should be a pitch to convince the class that your approach to solving a problem is a good one. In your talk, make sure to cover all the key points from your project (topic, prior work, your approach, results, evaluation). For groups, all team members should participate.

The class will vote on best presentation, and top presentations will receive a prize.

Final Paper and Project (40%)

Deadline: 5/3, 11:59 pm

If working alone, the final paper should be around 5-6 pages of content and if working in a group, depending on the size, your paper should be closer to 8-10 pages. References are additional pages.

Your paper should include:

- abstract
- introduction
- previous research
- method
- data used

- results/evaluation
- conclusion
- future work

Along with your final paper, you should submit your well-documented code and data that you used. You should use the NAACL style files for formatting.

If you are working in a group, submit one paper. After the reference section include a page describing each person's contributions.

Examples of Final Project Topics

Emotion recognition (social media, speech data)
Personality recognition
Depression detection (social media, speech data)
Sarcasm detection
Power/politeness in emails

Resources

Kaggle datasets: <https://www.kaggle.com/datasets>
Rada Mihalcea datasets: <https://web.eecs.umich.edu/~mihalcea/downloads.html>
Facebook personality data: <http://mypersonality.org/wiki/doku.php>
Deceptive reviews corpus: http://myleott.com/op_spam/
Interspeech paralinguistic challenges: <http://compare.openaudio.eu>
Enron email corpus: <https://www.cs.cmu.edu/~enron/>
MSR social media conversation corpus: <https://www.microsoft.com/en-us/download/details.aspx?id=52375>
Sarcasm Twitter data: https://github.com/debanjanghosh/sarcasm_wsd
Cornell movie dialogues corpus: https://www.cs.cornell.edu/~cristian/Cornell_Movie-Dialogs_Corpus.html