

# CS 614 Applications of Machine Learning

## Final Project Guidelines

There are two components to your final project:

1. Paper
2. Source code (data available on demand)

To help clarify my expectations for each, here are some guidelines.

### I: Paper

Your paper should be 4 pages for singles, 5-6 pages for groups. It should contain the following sections.

1. Abstract
2. Background
3. Related Work
4. Methodology - various sections explaining what you did including all the applicable mathematics that would allow someone to recreate your work
5. Experiments and Results
  - a. Including information about your data
  - b. Applicable figures (PR curves, etc...)
  - c. Applicable tables/statistics
6. Conclusions
7. Future Work/Extensions
8. Bibliography

### II: Source Code and Data

Although you are not required to submit your data (since it may be large), you must submit your source-code to verify authenticity. As a rule of thumb, your results (as shown in the evaluation section of your paper) should be reproducible. If I have any questions/issues on what I see (in the paper and/or code) then I may ask you to demonstrate how to run your code (with its related data).

### IV: Submission

In all you should be submitting:

1. PDF paper
2. README file for code
  - a. How to link, compile, etc..
  - b. Additional libraries needed, how to install them, etc..

- c. What (and how) to run to reproduce the results in your paper.
3. Source code

### V: Grading Rubric

Your grade will be based on three components:

1. Subjective opinion on quality (100pts)
2. Paper Quality (200pts)

*My subjective point allocation will be:*

100pts - Amazing (may not be any of these)

Novel and ready to go to a conference

95pts - Excellent

Lots of work, extensive evaluation. Didn't leave me with any questions.

90pts- Very good

Good amount of work good evaluation but left some questions.

85pts - Good

Good evaluation but not a lot of work and/or lots of questions.

80pts - Decent

Lacking some "depth"

75pts - Some major issues

I.e No eval, missing sections, too vague/incomplete, missing data, files, code

70pts - Major issues

Several of the above issues

50pts - Barely did anything

0pts - Didn't do anything

*Paper Points will be allocated as:*

1. Abstract	10pts
2. Background	10pts
3. Related Work/Bibliography	20pts
4. Methodology	30pts
5. Experiments and Results	30pts
6. Conclusions	30pts
7. Future Work	10pts
8. Overall Analysis	30pts
9. Proper Submission with reproducible and original code	30pts