

**COSC 4555/5555 Machine Learning  
Spring 2023  
University of Wyoming**

**Guidelines for the Project Proposal Submission**

***Due: February 12, 2023, 11:59 p.m.***

By this time, each of you should have a general area of a project or a research topic for the class project. I believe that writing down the problem makes you think clearly what you are proposing. The purpose of this exercise is to share with me a written description of the problem (or project), so I can provide you feedback early on.

Your project proposal should contain a maximum of four (4) pages *excluding* any references and a cover page.

Please prepare and submit your group (2 to 5 members) project proposal with the following specifications.

- The cover page should include the title of the project proposal and a list of the team members in the group.

Address each of the following in the body of the proposal.

- Address what is the problem? What is the scientific merit?
- Why are you interested to solve the problem you are proposing? What are the broader impacts?
- How do you propose to solve the problem (i.e., approach)?
- What has already been done? How, what you are proposing is different than what has already been done?
- How will you validate that your approach (or software) will work as intended? Do you need any datasets? If so where would you find the datasets? Or do you plan to do simulations or collect data (discuss – you may need an IRB).

You may submit more than one problem for comments.

***P.S. – Graduate students should select a research project with focus towards novelty.  
Undergraduate students may choose an applied project.***

***Submission guideline*** You need to submit only one “***proposal.pdf***” file. Only one team member needs to submit the proposal.

**Some Useful Resources**

**Datasets** - UCI Machine Learning Repository. [Click here.](#)

**Sample Projects** - Students’ previous machine learning projects in Stanford University. [Click here.](#)