

## CS5402 Fall 2016 Final Project (20pts)

**Deadline 1: Oct 24 11:59PM, find your teammate**

**Deadline 2: Nov 11 11:59PM, your proposal on your final project**

**Deadline 3: Dec 9 11:59PM, submit your final project via Canvas**

The final course project can be any Machine Learning project related to this course. You have the opportunity to create some cool projects with your own creativities. Specially, the instructor encourages you to find projects related to your research interests.

By Oct 24, you need to notify the GTA who is your teammate (a team can consist of one or two members). If you do not notify us, we assume you are doing the final project alone.

By Nov 11, you need to submit your proposal on your final project (up to 1 page), which briefly describe (a) the Machine Learning problem you are going to solve; (b) the related literature work; (c) your proposed methodologies; and (d) your timeline to finish this project and the task assignment to each team member.

**Note 1:** The instructor strongly suggest your team to come to the office hours of the instructor or GTA to discuss about your project topic before this deadline.

**Note 2:** If you can find your teammate and project topic right after you see this description. You can start it immediately and you have much more time to finish your project.

By Dec 9, you need to upload running code and a written report to Canvas.

In the week of Dec.5, your team will give a short presentation on your project in the class. The section of distance learning will make presentation to the instructor or GTA individually by Skype.

1/3 of your grade will be based on the presentation; 1/3 of your grade will be based on the written report discussing your program, design decisions, and experimental observations; and 1/3 of your grade will be based on the program itself and output it produces. The report should contain:

- a) Brief summary of what you think the project was about (what was the task; what were you trying to achieve),
- b) Briefly review the related work,
- c) Brief outline of the algorithmic approach (e.g., enumerate your step or a flowchart showing the flow of control and subroutine structure of your code),
- d) Pictures of intermediate and final results that convince me that the program does what you think it does.
- e) Any design decisions you had to make.
- f) Experimental observations, discussion and future work.

**Plan early and start early on your final project!**