The course project can be done in teams of 2-3 students. The project gives you a chance to apply the machine learning techniques learned in this class to real-world problems. You should first identify a potential machine learning problem which involves classification, regression, clustering, or even reinforcement learning. You are welcome to propose your own ideas and projects. Or you can look for such problems at [http://www.kaggle.com/](http://www.kaggle.com/), a website organizing competitions for machine learning practitioners.

After you decide a problem, write a proposal (1 page) that briefly describes your project and proposed approaches. You should include the following key elements in the proposal.

1. A description of the proposed problem
2. Your hypotheses and/or objectives
3. Proposed methods
4. A brief timeline
5. Describe your team and how you plan to divide the work

Submit your proposal to the instructor on **Nov 9th**. You will be asked to present your projects and submit final reports on **Dec 19, 2016** during the final exam hours.