

# Graduate Project #1

This is a group assignment. As a group, please submit your work to me via email. Provide your team number as well as the names of the team members. The assignment is due at 11:59 on the day posted on blackboard. Please submit in PDF format.

This assignment will be submitted as a short write-up. The goal of this assignment is to help teams in deciding what project the team would like to work on throughout the course of the semester. As a team, discuss and pick three potential ML-based projects. For each project, provide a short paragraph on the purpose and reason behind picking this project. Furthermore, in a list of enumerated points please discuss:

1. Where the data will come from? What is the quality and style for the data.
2. Is this potential project considered a supervised, unsupervised, semisupervised, reinforcement, or combination (combination of the previously mentioned) type of ML-project? Please provide reasoning on your selection.
3. Is this an online or batch training problem? Please provide reasoning on your selection.
4. Is this an instance-based or model-based problem? Please provide reasoning on your selection.
5. What is a potential algorithm you will use? Provide reasoning behind your selection.