

# Final Class Project – Instructions for Progress Report Advanced Machine Learning

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## 1 Due Dates for Final Project

- Progress report: **February 20th** (15 points)
- Kaggle submission quality: **February 27th** (5 points)
- Project presentation (long version): **March 7th** (15 points)
- Project presentation (short version): **March 8th** at 5pm (4 points)
  - Short version to present in class March 9th
- Peer reviews: **March 10th** (1 point)

## 2 Progress Report Guidelines

For this progress report you will read some papers related to your problem, do some preliminary exploration of your data and build a simple model. You write a report based on the sections written in “project-report-template-2017.tex.”

Your progress report will be graded based of the following:

1. All the code used for the progress report should be in your team’s github repo (for Kaggle) and in your team databrick account for Vungle.

2. You should have an complete a preliminary exploratory analysis on your data and results on an initial model.
3. List the responsibilities of each person in the group in completing this part of the project.

Your progress report should be up to 4 pages.

## 2.1 Papers to Read

- Vungle teams:
  - Simple and scalable response prediction for display advertising
  - Handling Class Imbalance Problem Using Feature Selection
  - Find another paper (I recommend one of the papers from the same Canvas folder)
- Vungle + DL:
  - Deep Learning over Multi-field Categorical Data? A Case Study on User Response Prediction
  - Handling Class Imbalance Problem Using Feature Selection
  - Find another Deep Learning paper
- Kaggle Teams:
  - Research what top kaggle teams are doing for this problem.
  - Find a couple of papers related to this problem.