In-class Kaggle competition. (8 pts + 5 bonus)

We are hosting a in-class competition using the IA1 data, where you are encouraged to explore different feature engineering ideas to improve the prediction performance. You can explore different ways to manipulate the features such as removing features, transforming them, or construct new features based on the existing ones etc. You can also consider transforming the target variable as well. This is where you can be really creative and test your ideas out.

To participate in this competition, please use the following link:

$$\texttt{https://www.kaggle.com/t/b9274c70e22e4878bc15abe603202728}$$

You can build on your team's work completed for IA1, but you must complete the competition portion solo and form your own single-person team to train/test your model and submit your predictions to Kaggle to be evaluated. You will be able to see your model's performance on the public leader board to help you gauge how well your model is performing in comparison to others. Each day, you have a limited number of attempts. In the end, you are allowed to submit three entries for final evaluation based on the private leader board. The final evaluation results will be released when the competition is closed.

To get full marks for this part, you will need to

(a) (4pts) participate in the competition on Kaggle; and at least beat the bench mark performance on both private and public test data (believe me, this is a super low bar);

(b) (4pts) submit a short report on canvas clearly describe your best performing method (based on the public scoreboard result) and briefly discuss the lessons learned from your exploration.

Competition bonus: The top three performers on the private leader board will receive 5 bonus points.