**Analytic Deployment Review**

Part of the analytic development process is ensuring that the algorithms you develop will be reproducible and portable for an end-user. Often an end-user’s machine is not configured in the same way as the developer’s – leading to unexpected side effects or errors. To ensure that your methods are reproducible & portable, your analytic data products will be reviewed on multiple ‘new’ machines representing those used by potential end-users.

In lieu of a final exam, each student will be tasked to review two analytic projects developed by students in the course. Using the information presented in the GitHub repository README file and any documentation files provided with the analytic, the reviewer will review the analytic in these areas:

* Accuracy
  + Are the results accurate?
  + Is it clear how the results were computed?
* Compilation
  + Did the analytic work? (i.e. install correctly, startup correctly)
  + Were errors encountered when executing code according to the documentation?
* Ease of use
  + Is it clear how to use the analytic? (i.e. is the documentation clear)
  + Are the visualizations/plots interpretable?

Reviewers will capture their findings by (1) generating an issue on the analytic project’s Github page for each finding and (2) present all findings in a final report (.Rmd file – html\_document). Both the report and the Github issues should include a brief discussion of the problem with one or more reproducible examples.

After reviewing the analytic, the reviewer will then assign it one of the following grades. **Note: I will perform a second review on all projects to ensure that grades are assigned fairly. If my final grade differs greatly from the grade provided by the reviewer – it will be an indication of poor engagement by the reviewer.**

* Outstanding – ready to publish/deploy (50 pts)
  + All proposal tasks completed
  + Documentation is thorough and clear
  + No errors or warnings during build/use
* Excellent – very little rework required (45 pts)
  + Few proposal tasks incomplete
  + Documentation is clear and mostly complete
  + Minor errors or warnings during build/use
* Satisfactory – extensive rework required (40 pts)
  + Several proposal tasks incomplete
  + Documentation is limited and/or poorly written
  + Severe errors during build or in use
* Unsatisfactory – complete restart required (35 pts)
  + Little progress made on proposal tasks
  + Little to no documentation
  + Cannot be compiled, unusable