IST 3420 – Introduction to Data Science and Management, Fall 2017, Chen

**Project Evaluation Form – Milestone 5: Final Report**

**Submission Due December 14, 11:59 PM**

**Instruction:**

1. Collect and cleanse data. The project report should include:

* Introduction (final)
* Data Source and Collection (final)
* Data manipulation (final)
* Data summarization and visualization (final)
* Data exploration (final)
* Predictive modeling (final)
* Summarize Findings (final)

Read the evaluation criteria carefully on the next page for the detail.

1. Use R Markdown to write your project report. You need to use proper Markdown syntax to format your report. Do not use MS Word or other format.
2. Please submit the following documents into Canvas:

* The project report written in R Markdown;
* The Word/HTML/PDF report that is directly generated from your R Markdown file;
* The Evaluation form with full project team information (see below table).

**Project Team Information (filled in by students)**

|  |  |  |
| --- | --- | --- |
| **Member name** | **Percent contribution** | **Activities completed by the member** |
| Adam Forestier | 25% | Primary coder, fixed mistakes from previous submission |
| Parika Gupta | 25% | Provided Feedback |
| Brandon Jones | 25% | Wrote analyses |
| Nathaniel Williams | 25% | Wrote Analyses |

**Evaluation Summary – M5 (filled in by instructor)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **Target %** | **Comments** | **Evaluation** |
| * Refine your project report by addressing all issues on M3 and M4 commented by the instructor. * Submit all required documents: * The project report written in R Markdown; * The Word/HTML/PDF report that is directly generated from your R Markdown file; * The Evaluation form with full project team information. | 15 |  |  |
| * Correctly use various data exploration methods to explore your dataset. * Correctly use regression analysis methods to address some research questions and/or to get some solid conclusions that improve our current understanding of your dataset. | 25 |  |  |
| * Properly use predictive analytics to solve some classification and prediction problems on your dataset. * The predictive analytics should include model building and tuning to get a “best” predictive model for your dataset. * At least use 4 prediction and classification models, properly visualize these models and compare their performance. | 30 |  |  |
| * Summarize the key findings and provide suggestion for business improvement. * Explain implications or benefits your project can bring to the stakeholders. | 20 |  |  |
| * Format your project report in a professional way. * Write your project report by using appropriate Markdown syntax. * Your report tells an interesting story. * The whole document is well written. | 10 |  |  |
| The report satisfies all of the following criteria:   * It tells a very interesting story; * The data manipulation methods are professionally applied; * The whole document is well written | 10 bonus |  |  |
| **Total** | **100** |  |  |