IST 5420 – Business Analytics and Data Science, Spring 2017, Chen

**Project Evaluation Form – Milestone 2: Data Analysis I**

**Submission Due Mar 5, 11:59 PM**

**Instruction:**

1. Analyze data and report the results. The project report should include:

* Introduction (refined from M1)
* Data Source and Collection (refined from M1)
* Data manipulation (newly developed)
* Data visualization and summarization (newly developed)
* Predictive modeling (newly developed)

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.
2. Please submit the following documents into Canvas:

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

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

|  |  |  |
| --- | --- | --- |
| **Member name** | **Percent contribution** | **Activities completed by the member** |
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**Evaluation Summary – M2 (filled in by instructor)**

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| --- | --- | --- | --- |
| **Criteria** | **Target %** | **Comments** | **Evaluation** |
| * Manipulate your dataset properly * Properly detect outliers and deal with missing values in your dataset. | 10 |  |  |
| * Summarize and visualize data by using appropriate methods. * At least 10 professional graphs with detailed and proper interpretations are required. | 40 |  |  |
| * 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. | 40 |  |  |
| * Format your project report in a professional way. * Write your project report by using appropriate Markdown syntax. | 10 |  |  |
| The report satisfies all of the following criteria:   * It tells a very interesting story; * The graphs and tables as well as their interpretations are very professional; * The whole document is well written | 10 bonus |  |  |
| **Total** | **100** |  |  |