IST 5520, Spring 2020, Chen

**Project Evaluation Form – Milestone 1: Proposal**

**Submission Due Feb 20, 11:59 PM**

**Instruction:**

1. Discuss with your group members. Find a business problem that can be solved by using business analytics methods. Submit your project proposal.
2. Students should come up with their own datasets. If you have your own datasets, that is great. If you don’t have datasets at hand, you can either collect your own datasets or find some existing datasets for your project from the Internet such as the following websites:
   1. Open Government Data <https://www.data.gov/>
   2. Kaggle Datasets <https://www.kaggle.com/datasets>
   3. Harvard Dataverse <https://dataverse.harvard.edu/dataverse/harvard>
   4. KDD Nugets <https://www.kdnuggets.com/datasets/index.html>
   5. Google Dataset Search <https://toolbox.google.com/datasetsearch>

The dataset that is appropriate for the course project must satisfy the following criteria:

1. The dataset must have potential to tell an interesting story;
2. The dataset must be in raw format. It has not been cleansed by other people;
3. There must be relatively large number of variables (>=20) that could be extracted from the dataset;
4. The dataset should have a large number of observations (>=1000);
5. The dataset and your research questions have not been fully analyzed on the Internet, especially using Python.

Each group must send their dataset to the instructor for approval. It is recommended that each group discuss their dataset with the instructor in the office hours.

1. The project proposal should include two sections:

* Introduction
* Data Source and Collection

Read the evaluation criteria carefully on the next page for the detailed requirement.

1. Use Markdown in Jupyter notebook to write your project proposal. You need to use proper Markdown syntax to format your proposal. Do not use MS Word or other format. For the format of the project proposal (and reports for future milestones), you can refer to the sample project of Dota 2 review analysis.
2. Please create your group project repository on github and use it to manage all your project documents.
3. Please submit the following two documents into Canvas:

* The project proposal written in .ipynb 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** |
| Bryce Cordry | 20% | Coordinate project; set-up GitHub |
| Kyle Johnson | 20% | Examine datasets for viability |
| Matthew Kovar | 20% | Write proposal copy; advise GitHub syntax |
| Yitian Luo | 20% | Write proposal copy |
| Brian Middleton | 20% | Develop research questions |

**Evaluation Summary – M1 (filled in by instructor)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **Target %** | **Comments** | **Evaluation** |
| * Fully explain the business problem you choose to analyze. * Introduce business scenario or setting for your project. | 30 |  |  |
| * Clearly specify the high level requirements and research questions. | 20 |  |  |
| * Specify data source(s) [and data collection method(s) if applicable]. The dataset should satisfy all criteria as specified on page 1. * Explain how you get the data and what key information is available in the dataset. | 20 |  |  |
| * Format your project proposal in a professional way. * Write your project proposal by using appropriate Markdown syntax. | 20 |  |  |
| * Create a github repository for your project. * Use the repository to manage all your project documents including the proposal (the instructor should be invited to verify this). | 10 |  |  |
| **Total** | **100** |  |  |