Final Project Proposal

Before you dive into building out your final project, I’d like you to craft a proposal outlining your data, problem definition and goals. This should allow you to clarify what you’re looking to build, as well as get feedback on that objective before committing your time it would take to build it.

By the time you submit your proposal you should have formed your team and have decided on a dataset with some practical goals other than just analysis. You should clearly state why you are interested in this data and what problems you will try to solve. The problem shouldbe clearly defined. You should write at least four research questions or queries that you will investigate.

The purpose of the proposal is to help you channel your thinking in the right path by asking questions on your data:

* What? What is your problem, what is your data, what is your expertise?
* Why? Why is this important, what’s the benefit?
* How? How will you get the data, how will you solve the problem, what tools will you use?
* How much? How deep will you go, how much analysis will you do?

I will help you with whether it is OK to continue or make some modifications to your proposal. The problem you want to work shouldn’t be too easy, but also shouldn’t be too hard. The dataset should be sufficiently large and complex. At the proposal stage you have done basic exploratory analysis on different datasets, tried to answer the above questions, and finally decided on a data set of your liking.

Going into a bit more detail, the proposal should be approximately one to three pages long and answer the following questions:

* What is the problem you are attempting to solve?
* How is your solution valuable?
* What is your data source and how will you access it?
  + Give some background on the data
  + Provide a snapshot of the dataset
* What techniques do you anticipate using, and why?
* What do you anticipate being the biggest challenge you’ll face?
* What research question (queries) are you going to investigate?

When answering these questions you should form a clear picture of the work you intend to do without having begun to build out the infrastructure to execute it yet. You may have written some code, done some initial scraping, or some initial analysis, even some simple models. Do not, however, start to actually build your product until it has been approved.

Other than the above questions, I expect to see some basic exploratory analysis including some statistical summaries and data visualizations.

Submit:

Maximum three page long proposal as Word document