# Take home assignment for DS Candidate

## DMA – Data Science Team

### To submit:

1. Jupyter notebooks **or** R MD notebook showing both code and outputs. Feel free to use markdown blocks to write explanations. We will also accept notebooks in HTML format, provide that they include both code and outputs.

### Due Date/Time:

Following Monday at 10 AM (EST).

### Tasks:

Please analyze both datasets and return. Keep in mind that candidates will be evaluated on the following:

* Code
* Math/stats,
* Critical thinking and reasoning
* Communication and story-telling

Note that metadata are provided but have been truncated.

1. Bankruptcy data. (Qualitative Bankruptcy)
   1. Examine the data description and build a classification model to predict the end point.
   2. Interpret the results and explain.
2. Audit Risk Dataset (Fraud Audit)
   1. Preprocess and clean if necessary.
   2. Build a model predicting “Risk”.
   3. Remember to comment your code and give rationales for models, algorithms, and approaches.