**Section 1:**

1. Load the dataset Data1.csv
2. Load the data using your preferred language/tool set.
3. Split the labels (A5) from the rest of the data.
4. Implement an unsupervised clustering model.
   1. Include your process for identifying the number of clusters.
   2. Explain your choice of model against other possible models for clustering. What are the tradeoffs?
5. Using dimensionality reduction, create a visualization of the clusters you created.
   1. Include the actual labels on the visualization, in addition to the cluster assignments.

**Section 2:**

1. Load the Data2.csv, we are trying to build a classifier to predict the target variable, which is 0 or 1. Build a predictive model to do so and justify your technique and results.

This data challenge is designed to test your abilities in building predictive model. Your main objective is to build and validate a model that can discriminate different classes in a target. We are also interested in which (top k) features have the most discriminative power.

The attached dataset is a csv file where the columns represent the features. The first column is the binary target. Each line corresponds to a unique client. Some feature values maybe missing; hence left blank. This may happen due to many reasons such as the customer not providing a piece of information or that information simply not being available.

The desired result of your work is a report with max 3 pages including graphs and figures. This report should clearly line out your approach to the problem, the model performance results and your conclusions, any tools you use and code you write to arrive at the conclusions. Feel free to use any tools/software you may see fit as long as you mention them clearly. The tools or the code will not count towards the length requirement.