# Data Science Challenge

The purpose of this exercise is to demonstrate your problem solving skills, i.e. how you think, and to a secondary extent how you are able to communicate with technical colleagues in a business setting. In contrast, the goal is not to optimize or formalize a solution.

Please do not spend more than two hours on this exercise. A complete solution is not required.

You have received a fake sample data set. The data is representative of what could be found in a database table, i.e. clean enough to start working with, but with quirks or messiness found in data generated by real-world processes. Each row represents a contribution from a donor (DonorID) to a receiving organization (OrgID), where the amount (gift) and the date received (giftdate).

Using the tools of your choice, take some time to explore, model, and/ or visualize the data. Some possible business goals that could be achieved with data include (1) predicting the size of future gifts at the donor level, or (2) determining likelihood to give for existing donors in the data set.

The primary deliverable for this exercise is a one-page written overview of your findings. Address how you would do the following:

1. Define the problem, including features and target
2. Understand, explore, or clean the data
3. Build the predictive model
4. Validate and evaluate the result as an on-time exercise or on an ongoing basis
5. Determine additional next steps

Please also attach any code you wrote to complete the task.