1. Perform combined over and undersampling on the diabetes dataset (use SMOTEENN). Explain how combined sampling works.
2. Comment on the performance of combined sampling vs the other approaches we have used for the diabetes dataset.
3. What is outlier detection? Why is it useful? What methods can you use for outlier detection?
4. Perform a linear SVM to predict credit approval using this dataset: <https://archive.ics.uci.edu/ml/datasets/Statlog+%28Australian+Credit+Approval%29> . Make sure you look at the accompanying document that describes the data in the dat file. You will need to either convert this data to another file type or import the dat file to python.

You can use this code, but otherwise you follow standard practices we have already used many times:

**from** **sklearn.svm** **import** SVC

classifier = SVC(kernel='linear')

1. How did the SVM model perform? Use a classification report.
2. What kinds of jobs in data are you most interested in? Do some research on what is out there. Write about your thoughts in under 400 words.