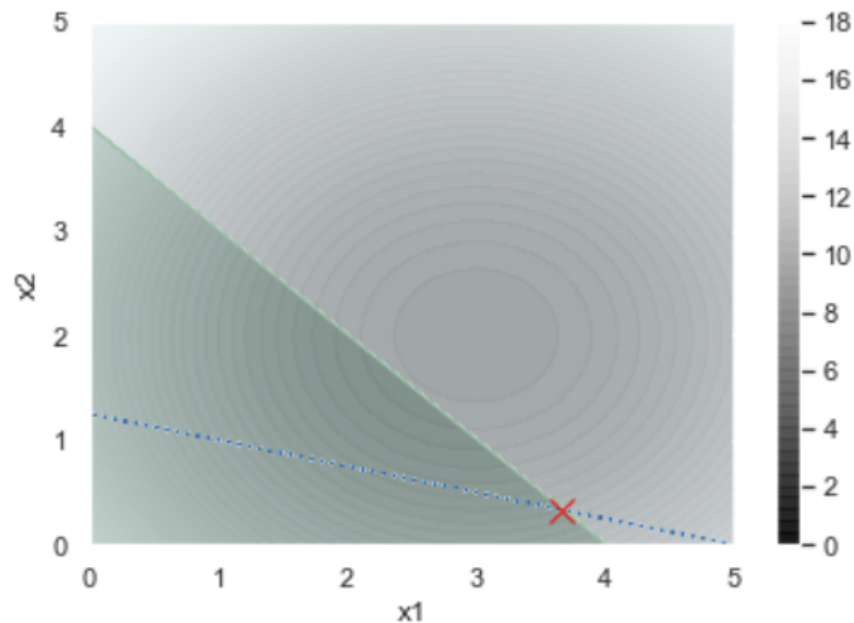


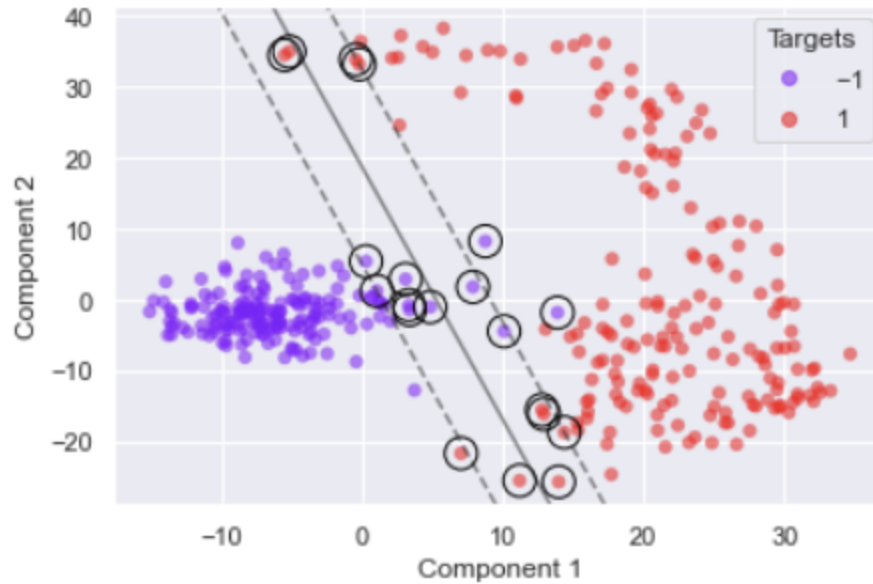
Sample Results Week 10

1) Constrained Optimization

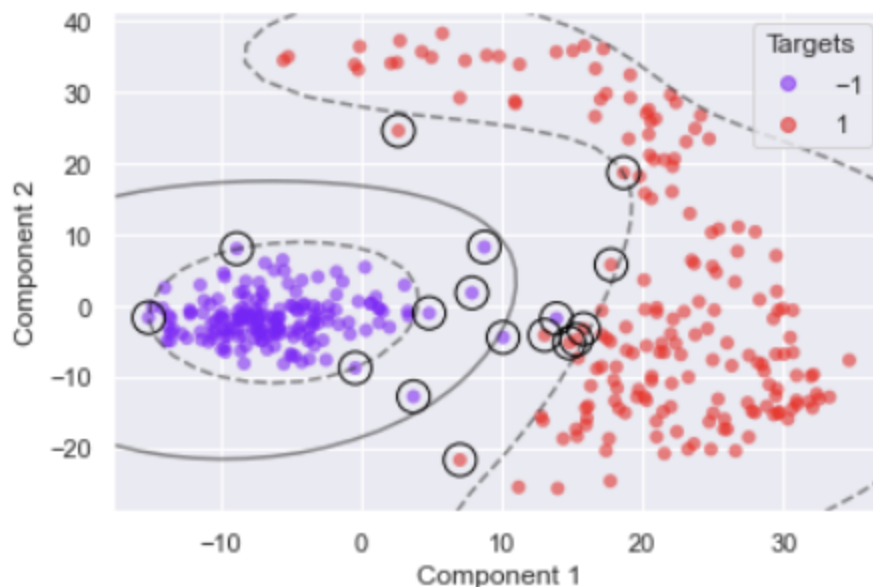
Visualization of solution (not part of exercise)



2.1) Fit a linear SVM classifier, and plot the decision boundary, margin, and support vectors



2.2) Fit a non-linear SVM classifier using the RBF kernel, and plot the decision boundary, margin, and support vectors



2.3) Compare $C=1$ with $C=1000$ on the RBF-kernel SVM-classifier. What is the effect of a larger C ? What

could be the downside of a very large C?

