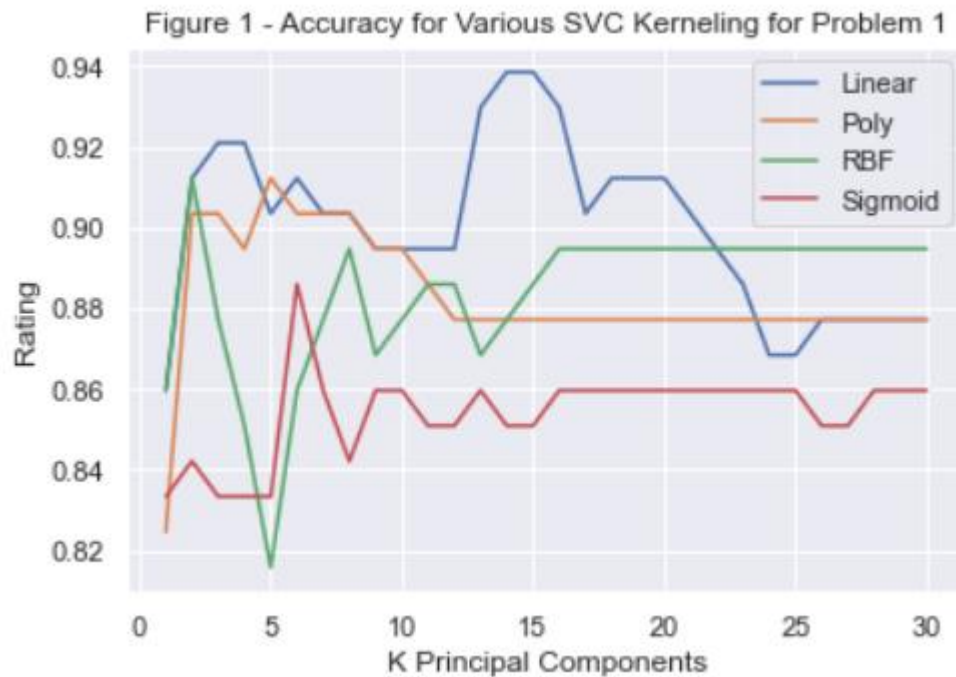


[https://github.com/Christian-Martens-UNCC/ECGR-4105/tree/main/Homework\\_4-SVM\\_PCA\\_%26\\_SVR](https://github.com/Christian-Martens-UNCC/ECGR-4105/tree/main/Homework_4-SVM_PCA_%26_SVR)

Problem 1:

- A) The optimal number of K-Principal components was 14 and 15 with the linear model. The accuracy of the model with these principals were around 94%
- B)



- C) Overall, the performance of the SVM model was less accurate than the logistic regression model used in Homework 3.

Problem 2:

- A) The optimal number of K-Principal components was at 8 with the RBF model. The purported accuracy of the model with these principals was 1.5%
- B)

