# Information

### Optical Recognition of Handwritten Digits dataset

-Successfully implemented knn algorithm and boosting algorithm and obtained an accuracy of 98.4 % and 96.4%

-Used knn, caret and caretEnsemble libraries for implementing knn and boosting.

-Tried to use another kknn library for implementing the same.

-Challenges faced: It took some time to understand the different parameters used in the caret and caretEnsemble function. Less documentation is available for both the libraries and R studio started crashing while doing boosting

### Amazon reviews sentiment analysis dataset

-We are not able to get good libraries which performs the sentiment score calculation of each review in the dataset.

-Since sentiment calculation in python is giving better results as compared to R, we are calculating the sentiment score by using **Vader Sentiment library.**

-Still the accuracy was not improving much in the case of amazon dataset by using knn and boosting

- Challenging part: Since we were new to python, it took some time to understand the concepts of python language and implement the sentiment calculation

- We are trying to improve the prediction of amazon data by using more python libraries for stemming.