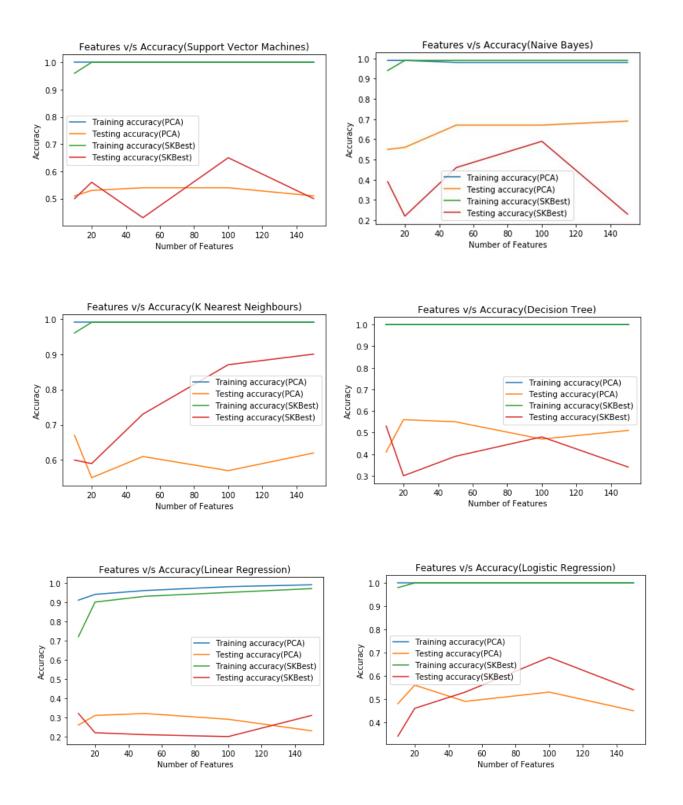
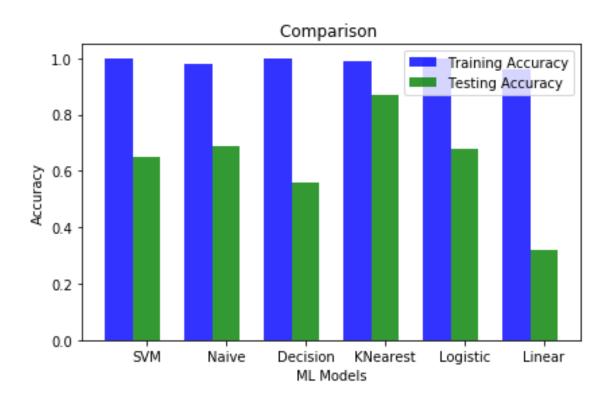
Feature Analysis

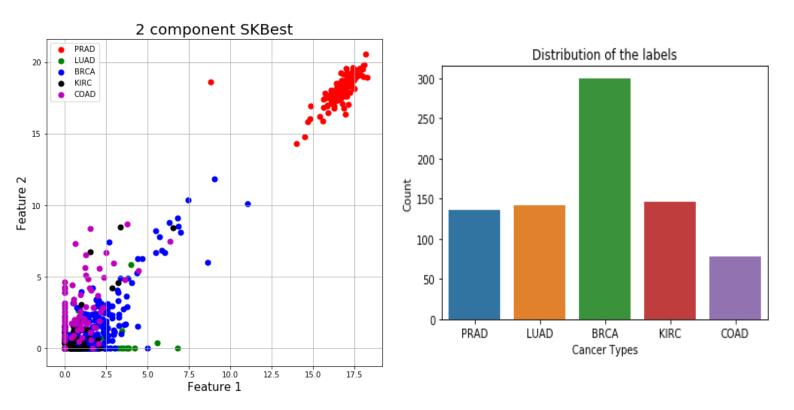
➤ For each machine learning model, analysis of training and testing accuracy with respect to different feature set.



➤ Comparison among different models by considering the best feature set for each model.



> Distribution of initial data in 2 dimensions



> Approaches tried to overcome overfitting

- Feature selection methods- LDA, PCA and Annova (with 10-200 features)
- Different classifiers- SVM, Naïve Bayes, Decision Tree and K
 Nearest Neighbours (with k=5)
- o Cross validation using 3,5,10 folds
- o GridSearchCV for SVM
- Normalisation of dataset
- o Regularisation
- o Manually creating a balanced subset using original dataset