CHAPTER 4

4. RESULT CALCULATION

Two classification methods (Support Vector Machine and K-Nearest Neighbors) are adapted to each training dataset to build the classification model. One model is also built using Principal Component Analysis with Support Vector Machine. The results are evaluated using accuracy score and confusion matrix of all the three models. For accuracy score and confusion matrix, we used accuracy_score and plot_confusion_matrix respectively of sklearn.metrics library.

4.1 Result of Support Vector Machine (SVM) Model

After applying Support Vector Machine (SVM) classification Model, we get the sentiment of those reviews which are in our test dataset.

The below table represents some of our actual sentiment of test dataset and predicted sentiment that we get after applying SVM classification.

Table 04: Actual Sentiment and SVM predicted Sentiment

Actual Sentiment	Predicted Sentiment

Table 05: Comparison of Actual Sentiment and SVM Predicted Sentiment

Sentiment	Bad Review (0)	Good Review (0)
Actual Sentiment		
Predicted Sentiment by SVM