**CONCLUSION AND FUTURE WORK**

The fruit images play increasingly important role in markets. The application developed addresses the problem of manual detection of real time fruits. The project demonstrates a novel SVM and KNN method to recognize the fruits in real and non-real. The experiments demonstrate that the SVM obtained 90% classification accuracy and the KNN obtained 88% classification accuracy in non-real-time. Using the approach of GLCM for feature extraction, the texture features like contrast, correlation, energy, homogeneity features etc are extracted. Using this, the fruit images are accurately segmented from browsed image, then Support Vector Machine (SVM) is used to recognise the fruit and display the name.

Future work should focus on the following aspects: First, the proposed SVM based method could be employed for images with other mechanisms such as Proton Density weighted, and diffusion weighted images. Second, the development of a web app or mobile app where the user can use this application anytime anywhere. Third, Multi-classification, which focuses on rare fruits and unknown fruits can also be explored. Forth, without the use of natural lighting condition, will be tested to increase the classification accuracy. Finally, the quality of the fruits can also be detected.