# CHAPTER 6

# CONCLUSION AND FUTURE WORK

## 6.1 CONCLUSION

In this project, a smart attendance system with face recognition technology was developed. A model has been developed by training the students using face_recognition through dlib library while the models that have been generated can be used to mark the attendance. Thus the comparable detection can be obtained with satisfactory prediction accuracy. Different from the traditional methods, the process of marking and maintaining attendance can be performed in a face detection manner with the proposed model. This system is cost efficient and less manual work. The experimental results have shown that the attendance of the student can be marked and store it in the database.

## 6.2 FUTURE WORK

The future work is to improve the recognition rate when there are unintentional changes in a person like tonsuring head, using scarf, beard. Addition of student details and model generation for all students will be done in single trigger by storing and uploading the details in an excel sheet. The barcode of a particular subject will be displayed on the projector which will change every 10 seconds to avoid proxy attendance. The student needs to scan the barcode and capture the photo within 10 seconds or the barcode will expire. This will prevent other students from capturing the photo of barcode and sending it to their colleagues to mark the attendance.