CHAPTER 4
CONCLUSION

4.1 Conclusion

Social network analysis has increased tremendously in recent times. To extract the personality of the authors on the social networking websites is very useful for much application in various domain like including job success, attractiveness, marital satisfaction and happiness. Personality detection from text means to extract the behavior characteristics of authors written the text. This thesis presents state-of-art review of the emerging field i.e. personality detection from text.

This thesis shows that a users' Big Five personality traits can be predicted from the public information they share on Twitter. The system uses text data from myPersonality dataset as a feature set to train machine learning algorithms - SVM to predict scores on each of the five personality traits. In this system, both classification and regression processes are done using Support Vector Machine (SVM) algorithm. And then, through the Twitter API, the system collected publicly accessible information from user's profile. After processing that data, the system uses the profile's text data as a feature set in machine learning algorithms - SVM – to predict scores on each of the five personality traits.

4.2 Limitation of the system

The system uses text data from myPersonality dataset to train the model. The system crawls the *real time* social media data called *tweets* from twitter using *Twitter REST API.* Tweets are the input of system and then, the system predicts the five personality traits of user. To use the system, the user needs to have Twitter account.

4.3 Future extension

In this thesis, the system only uses text of twitter user as feature and Support Vector Machine (SVM) for prediction users' big five personality. The system can use some features such as network size, LIWC features, SNA features, time-related

features, and others for better prediction result. And the system can also use other machining learning techniques and deep learning techniques to train and predict for better accuracy of the system. And the system should have function for other social network not only for Twitter such as Facebook, Instagram, etc.