**CHAPTER 7**

**CONCLUSION**

In this paper, we tried to identify the presence of depression in Twitter social media; and searched for affective performance increase solutions of depression detection. We characterized a closer connection between depression and a language usage by applying NLP and text classification techniques. We identified a lexicon of words more common among the depressed accounts. According to our findings, the language predictors of depression contained the words related to preoccupation with themselves, feelings of sadness, anxiety, anger, hostility or suicidal thoughts, with a greater emphasis on the present.

We conclude the system that implemented on bag of words and LF IDF on natural language processing (NLP) that shows prediction of depression words In twitter post.

To measure the signs of depression, we examined the performance of both single feature and combined feature sets using various text classifying methods. Our results show that a higher predictive performance is hidden in proper features selection and their multiple feature combinations. The strength and effectiveness of combined features are demonstrated with the NLP classifier reaching 91% accuracy and 0.93 F1 score achieving the highest performance degree for detecting the presence of depression in Reddit social media conducted in our study.