**Chapter 9**

**CONCLUSION AND FUTURE WORK**

As the conclusion of the project has been represented briefly to show the work carried out in building a system model. It also talks about the other enhancements that can be made into the project so that it is user friendly and make more accurate classification of data.

**9.1 Conclusion**

The project “Finding the Stage of Cancer malignant or benign” is successful in predicting the stage of breast cancer with a good accuracy rate depending on the various attributes given by the user in the collected data set, thereby eliminating the human error as the decision process is successfully automated.

It shows **Logistic Regression** modeling is fairly simple. It successfully classifies the cancer stage based on the important features provided. For datasets with a small amount of variables it is a viable method. This project is a good introduction to training and test sets which are very important components not just to data science but to statistical learning overall.

**9.2 Future Work**

We can carry out the following enhancements in the project which would make it more suitable and an intelligent model to classify various real world problems.

* Better regression techniques can be applied to obtain the best possible accuracy.
* Can be converted into a real time analysis system for insights on-the-fly.
* Can include more illustrative graphs and plots for a deeper understanding of the dataset.
* The application can be used to forecast the future trends in crimes as the real dataset of crime is collected from the website. Then the logistic regression model is trained on this dataset. After training the model, crime forecasting is done.

Department of CSE, RNSIT 2018-2019 42