CHAPTER 7

CONCLUSION

7.1 INTRODUCTION

Email system is one of the major sources of communication which is used at personal and executive levels. Spam filtering in email is a challenging issue because it consumes a lot of system space and harms the system by means of computer viruses. Even though, emails are securely transmitted by means of email protocols, recent researches indicate that the email classification plays an important and vibrant role in the spam filtering system.

By performing the email classification in email data mining, one can achieve high accuracy and less false positive rate. The evaluation of an email is determined by certain factors such as accuracy, specificity and sensitivity. These factors are achieved by spam filtering technique.

7.2 CONTRIBUTION OF THIS WORK

- An effective classification technique to assuage the issue on email classification and to enhance the effectiveness on email classification is proposed. The text features are calculated by using feature extraction and OLPP algorithm. The dimension of the feature is reduced by improving the accuracy. The obtained results are processed by MODNN classifier and finally the mails are classified into spam or ham.
- A secure framework is proposed for classifying the mails by means of segregating the mails into certain categories. The categorization of mails is done on the basis of events. The events are handled purely on the basis of text classification. The mails are categorized as usage/history/delete/habit. Decision tree classifier is used for classifying the events and they are tested using data mining tool for its accuracy.

- A multi level spam filtering on email is proposed. The filter handles with the textual and multimedia information present in the email. In this proposed framework, the emails are categorized into different types of classes. They are generic, informative, threatening and severe. The classes are purely classified on the basis of text classification and using multi class classifier and tested using data mining tool for its accuracy.

- An algorithm has been proposed for handling Meta data in email using Wordnet. It discusses how the spam thresholds are fixed on the basis of senses in detail.

In this work different types of email spam classifications are discussed. The main objective is to assuage the effective classification of email text messages. The work aims to provide better accuracy for email classification. While achieving this, it is observed that the Multiobjective function based on the email classification has better accuracy over single objective function based on email classification.
7.3 SCOPE FOR FUTURE RESEARCH

As explained in the previous section 7.2, the Multiobjective function based on email classification has provided better accuracy than the single objective function.

The analysis of the available methodologies and the research findings of the proposed methodology have helped to find a better process to overcome the issues and difficulties related to spam emails.

This research provides a prominent way for future researchers to find and identify better methodologies to overcome these issues in terms of the accuracy.

The same research may be augmented to increase the number of features, thereby increasing the email classification accuracy level.