**CHAPTER 5**

**RESULTS AND DISCUSSION**

The DDOS attack gets increased more while compared with the past period. In this project the DDOS attack detection using machine learning Algorithm was implemented. In this work, we were used the software tool Colab to classify the attack type. Three algorithms were implemented Random Forest Classifier, Support Vector Machine and K-Nearest Neighbour to classify the DDOS attack type and then combined these three models using Bagging Ensemble Technique. The Random Forest Classifier algorithm is used to obtain the maximum accuracy other than two models.

Hence the DDOS attack detection has been classified with different machine learning algorithms to obtain the best accuracy for this classification.

Table 5.1 Performance measures

|  |  |
| --- | --- |
| **MODEL** | **ACCURACY** |
| Support Vector Machine | 88.42% |
| Random Forest Classifier | 90.58% |
| K-Nearest Neighbour | 87.92% |
| Bagging Ensemble Technique | 89.75% |