CYBER SECURITY

Digital Assignment - 1

Harshil Gupta -17BCE1112

Shekhar Gaur – 17BCE1183

Shikhar Chaudhary – 17BCE1238

Mohika Thampi -17BCE1079

Pranjal Sachan -17BCE1027

Classification Algorithm Used:

- Decision Tree
- Gaussian Process
- Gradient Boosting

ATTACKS:

1.) UDP

S.No	Model	Accuracy
1.	Decision Tree	0.9952
2.	Gaussian Process	0.915846
3.	Gradient Boosting	0.999726

DecesionTree: 0.99952

Gradient Boosting: 0.9997266666666667 Gaussian Classifier: 0.915846666666667

2.) TCPSYN

S.No	Model	Accuracy
1.	Decision Tree	0.999311
2.	Gaussian Process	0.950137
3.	Gradient Boosting	0.999625

DecesionTree: 0.9993119266055046

Gradient Boosting: 0.9996253822629969 Gaussian Classifier: 0.9501376146788991

C:\Users\LENOVO\AppData\Local\Programs\Pythoi

3.) **ICMP**

S.No	Model	Accuracy
1.	Decision Tree	0.999418
2.	Gaussian Process	0.9436692
3.	Gradient Boosting	0.999677

DecesionTree: 0.9994186046511628

Gradient Boosting: 0.9996770025839793 Gaussian Classifier: 0.9436692506459948

C:\Users\LENOVO\AppData\Local\Programs\Python\F

4.) **LAND**

S.No	Model	Accuracy
1.	Decision Tree	0.834027777
2.	Gaussian Process	0.553125
3.	Gradient Boosting	0.6758333

DecesionTree: 0.83402777777778

Gradient Boosting: 0.6758333333333333

Gaussian Classifier: 0.553125

C:\Users\LENOVO\AppData\Local\Programs\Python\Py

5.) **TCPSYNACK**

S.No	Model	Accuracy
1.	Decision Tree	0.772717
2.	Gaussian Process	0.511521
3.	Gradient Boosting	0.606811

DecesionTree: 0.7727173913043478

Gradient Boosting: 0.6068115942028985

Gaussian Classifier: 0.5115217391304347

C:\Users\LENOVO\AppData\Local\Programs\Pyt