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TITLE – INTRUSION DETECTION SYSTEM USING SINGLE LEVEL MULTI MODEL DECISION TRESS

ABSTRACT –

In the area of network protection and administration, intrusion detection has become a major concern. Considering intrusion as a security danger, a network requires a device that protects it from both known and unknown vulnerabilities in order to operate effectively.

The internet as a result, we're working on an intrusion detection device that's reliable up to a certain point.

Detecting threats to a large degree with a minimum number of false positives.

The primary goal is to design a plan for detecting intrusions within the system with the least possible number of features within the dataset. We have to cut back the dimensionality of the dataset to build an improved classifier in a justifiable amount of time. The approach we are going to use has a total of 4 stages : In the first stage, we pick out the significant features for every class using feature selection. In the next we combine the various features, so that the final cluster of features are optimal and relevant for each attack class. The third stage is for building a classifier. Here, the optimal features found in the previous stage are sent as input into the classifier. In the last stage, we test the model by employing a test dataset

The attacks we are going to perform on IDS are –

Dos

U2r

Probing

R2L