**Documentation**

**Objective:**

Design and develop an efficient Multilayered Hierarchical classifier(MLHC) for classifying and detecting cyber attacks with the help of standard machine learning algorithms and latest real-time traffic dataset CSE-CIC-IDS2018.

**Tools Used:**

* Scikit-learn python library was used for running standard machine learning models.
* Pandas and NumPy tools were used for preprocessing of training and testing dataset.

**Experiment Setup:**

The experiments are carried out on a 64 bit Macbook Air Laptop with 8 GB RAM and CPU Intel core I5 1.6GHz. Scikit-learn python library was used for running the standard machine learning models to calculate the Accuracy(ACC), Precision(PRE), Recall(REC), F1-Score(F1), Total Accuracy, Detection Rate, Training time and Testing time of the Classifiers on the CSE-CIC- IDS2018[1] dataset.

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# Bibliography:

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