Annon - Network Intrusion Detection Challenge – Additional results

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Cross Validation

- Both the train dataset and test dataset combined into one single dataset .

- The different attack types were combined into one single entity called 'attack'

- Hence there were only two possible classification
  - 'normal.'
  - 'attack.'

- As mentioned at the end of the presentation, cross validation score was obtained for SVM classifier with C=100 and gamma=1.

- Two folds were created to test the model

Cross Validation contd.

- By having two folds, the first fold will be considered as train dataset and the second to be test and vice versa.
- The cross validation score has been obtained.

Dataset	Size
Train	494021 x 41
Test	311029 x 41
Total dataset	805050 x 41

Attack types
normal.
attack.

Results – Cross validation score

Cross validation score	Accuracy (%)
Fold 1	99.8037
Fold 2	99.7879
Mean score	**99.795**