```
#Create the DecisionTreeClassifier from sklearn

Decisionclf = DecisionTreeClassifier(random_state=42)

Decisionclf.fit(X_train, y_train)

# Predict on the test set and calculate accuracy

y_pred = Decisionclf.predict(X_test)

accuracy = accuracy_score(y_test, y_pred)

print("Accuracy: ", accuracy)

> 0.7s

Accuracy: 0.9940464377852749
```

Decision Tree classifier accuracy NSL -KDD

```
Accuracy: 0.9900773963087914

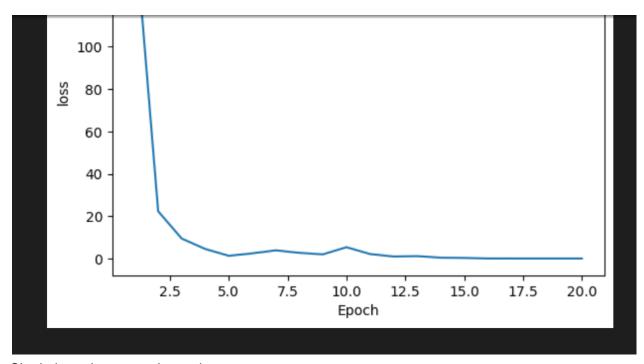
GClassifier = GaussianNB()
GClassifier.fit(X_train, y_train)

# Predict on test set and calculate accuracy
y_pred = GClassifier.predict(X_test)
accuracy = accuracy_score(y_test, y_pred)
print("Accuracy: ", accuracy)

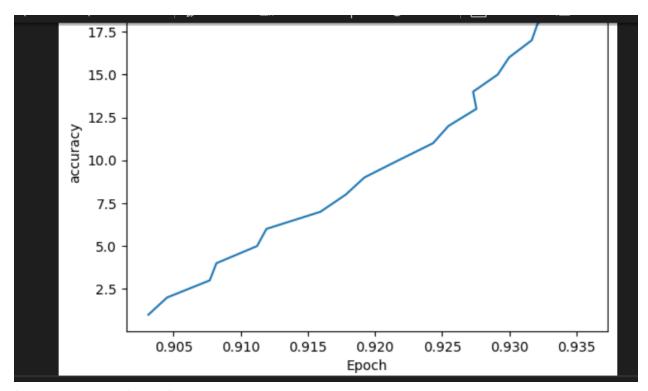
✓ 0.1s
Accuracy: 0.4637824965270887
```

Gaussian and One-vsREst classifier accuracy NSL-KDD

Single layer LSTM accuracy



Single layer loss- epoch graph



Accuracy vs epoch graph

Double LSTM layer accuracy

```
clf = DecisionTreeClassifier(random_state=42)
    clf.fit(X_train, y_train)

# Predict on test set and calculate accuracy
    y_pred = clf.predict(X_test)
    accuracy = accuracy_score(y_test, y_pred)
    print("Accuracy: ", accuracy)

Accuracy: 0.9218227983429106
```

UNR -IDD Accuracy for Binary anomaly classification