

Hackathon Report

The model chosen after evaluating all classification models is a stacking ensemble classifier.

Reason:

Due to the low accuracy of all the other single classifier models, I have chosen a stacking classifier.

Final Model:

Stacked Classifier -

```
level0.append(('xgb', XGBClassifier(  
    n_estimators=180,  
    max_depth=6,  
    learning_rate=0.15,  
    colsample_bytree=0.7,  
    subsample=0.8,  
    random_state=30)))  
  
level1 = LogisticRegression()  
model = StackingClassifier(estimators=level0, final_estimator=level1, cv=5)
```

Mean Accuracy with std: 0.85531 (0.00384)