Project-Performance

Model Performance Test

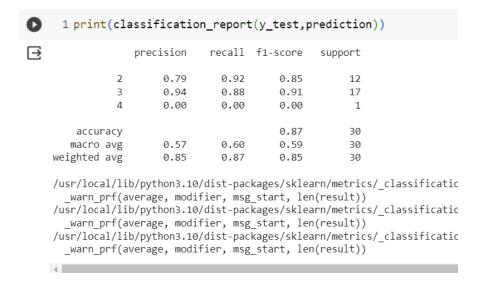
Date	16 November 2023
Team ID	Team-591563
Project Name	Lymphography Classification using Machine
	Learning
Maximum Marks	10 Marks

Metrics:

Confusion Matrix:

Accuracy-Score:

Classification-Report:



Hyper-Parameter Tuning:

```
1 params={
2     'max_depth':[9,10,11],
3     'min_samples_leaf':[2,3],
4     'n_estimators':[90,95,100,110],
5     'max_features':[2,3,4,5]
6 }
```

Validation-Method:

Cross-Fold Validation with 2 folds

```
/ [69] 1 grid_search.best_score_
       0.8135593220338984
       1 rf_best=grid_search.best_estimator_
        2 rf_best
  \supseteq
                               RandomForestClassifier
       RandomForestClassifier(max_depth=9, max_features=2, min_samples_leaf=2,
                             n_estimators=90)
      1 rf_classify=RandomForestClassifier(random_state=42,
                                                n_jobs=-1,
        3
                                                max_depth=9,
        4
                                                min_samples_split=2,
                                                max_features='sqrt',
        6
                                                n_estimators=90,
                                                bootstrap=True)
/ [72] 1 rf_classify.fit(x_train,y_train)
                                   RandomForestClassifier
       RandomForestClassifier(max_depth=9, n_estimators=90, n_jobs=-1, random_state=42)
```