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from sklearn.datasets import make_classification

from sklearn.model_selection import cross_val_score

from sklearn.metrics import accuracy_score, precision_score, recall_score, f1_score

x, y=make_classification (n_samples=1000, n_classes=2, random_state=1)

from sklearn.model_selection import train_test_split
x_train, x_test, y_train, y_test =train_test_split(x,y,test_size=0.20)

from sklearn.neighbors import KNeighborsClassifier
model=KNeighborsClassifier(n_neighbors=3)
model. fit(x_train, y_train)

        KNeighborsClassifier(n_neighbors=3)

y_pred=model.predict(x_test)
print("Cross Validation Accuracy", cross_val_score(model, x,y,cv=3) )
print("Score/Accuracy", model.score(x_test, y_test))
print("Accuracy", accuracy_score(y_test,y_pred) )
print("Precision", precision_score(y_test,y_pred))
print("Recall",recall_score(y_test,y_pred) )
print("F1 score", f1_score(y_test,y_pred))

        Cross Validation Accuracy [0.75449102 0.76276276 0.77177177]
        Score/Accuracy 0.755
        Accuracy 0.755
        Precision 0.803921568627451
        Recall 0.7387387387387387
        F1 score 0.7699530516431926
```

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