In [1]:
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## How to check model's f1-score using cross validation in Python
def Snippet_133():
    print()
    print(format('How to check model\'s f1-score using cross validation in Python','*^82'))
    import warnings
    warnings.filterwarnings("ignore")
    # load libraries
    from sklearn.model_selection import cross_val_score
    from sklearn.tree import DecisionTreeClassifier
    from sklearn.datasets import make_classification
    # Generate features matrix and target vector
    X, y = make_classification(n_samples = 10000,
                               n_features = 3,
                               n_informative = 3,
                               n_redundant = 0,
                               n_classes = 2,
                               random_state = 42)
    # Create Decision Tree model
    dtree = DecisionTreeClassifier()
    # Cross-validate model using accuracy
    print(); print(cross_val_score(dtree, X, y, scoring="f1", cv = 7))
    mean_score = cross_val_score(dtree, X, y, scoring="f1", cv = 7).mean()
    std_score = cross_val_score(dtree, X, y, scoring="f1", cv = 7).std()
    print(); print(mean_score)
    print(); print(std_score)
Snippet_133()
```

```
**********How to check model's f1-score using cross validation in Python**********

[0.92114445 0.91404612 0.93661972 0.92405063 0.9360506  0.9255618
 0.93039283]

0.9266568079331087

0.007807818663287848
```

In [ ]: