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In [1]: ## How to check model's accuracy using cross validation in Python
def Snippet_132():
    print()
    print(format('How to check model\'s accuracy 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="accuracy", cv = 7))
    mean_score = cross_val_score(dtree, X, y, scoring="accuracy", cv = 7).mean()
    std_score = cross_val_score(dtree, X, y, scoring="accuracy", cv = 7).std()
    print(); print(mean_score)
    print(); print(std_score)
Snippet_132()
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*****How to check model's accuracy using cross validation in Python*****
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[0.92377622 0.91468531 0.93837535 0.92507003 0.93277311 0.92577031
 0.92927171]
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0.9269033487520885
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0.006395430281733405
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In [ ]:
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