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In [3]: # check scikit-learn version
        import sklearn
        print(sklearn.__version__)
        1.0.2
In [4]: # test classification dataset
        from sklearn.datasets import make_classification
        # define dataset
        X, y = make_classification(n_samples=1000, n_features=20, n_informative=15, n_redur
        # summarize the dataset
        print(X.shape, y.shape)
        (1000, 20) (1000,)
In [5]: # evaluate adaboost algorithm for classification
        from numpy import mean
        from numpy import std
        from sklearn.datasets import make_classification
        from sklearn.model_selection import cross_val_score
        from sklearn.model_selection import RepeatedStratifiedKFold
        from sklearn.ensemble import AdaBoostClassifier
        # define dataset
        X, y = make_classification(n_samples=1000, n_features=20, n_informative=15, n_redur
        # define the model
        model = AdaBoostClassifier()
        # evaluate the model
        cv = RepeatedStratifiedKFold(n_splits=10, n_repeats=3, random_state=1)
        n_scores = cross_val_score(model, X, y, scoring='accuracy', cv=cv, n_jobs=-1, error
        # report performance
        print('Accuracy: %.3f (%.3f)' % (mean(n_scores), std(n_scores)))
        Accuracy: 0.806 (0.041)
In [6]: # make predictions using adaboost for classification
        from sklearn.datasets import make classification
        from sklearn.ensemble import AdaBoostClassifier
        # define dataset
        X, y = make_classification(n_samples=1000, n_features=20, n_informative=15, n_redure
        # define the model
        model = AdaBoostClassifier()
        # fit the model on the whole dataset
        model.fit(X, y)
        # make a single prediction
        row = [[-3.47224758,1.95378146,0.04875169,-0.91592588,-3.54022468,1.96405547,-7.725
        yhat = model.predict(row)
        print('Predicted Class: %d' % yhat[0])
```

Predicted Class: 0