Model Building

Train Test And Save Model

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	Classification using Artificial Intelligence

Train Test and Save Model:-

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Step 1 – Import the library

From sklearn import model_selection, datasets

From sklearn.tree import DecisionTreeClassifier

From sklearn.externals import joblib

Import pickle

We have imported model_selection, datasets, joblib, DecisionTreeClassifier and pickel which will be needed for the dataset.

Step 2 – Setting up the Data

We have loaded inbuilt wine dataset and stored data in x and target in y. We have used test train split to split the dataset such that 30% of data is for testing the model.

Dataset = datasets.load wine()

X = dataset.data; y = dataset.target

X train, X test, y train, y test = model selection.train test split(X, y, test size=0.3)

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Step 3 – Training and Saving the Model

We are using DecisionTreeClassifier as a model. We have trained the model by training data. We can save the model by using joblib.dump in which we have passed the parameter as model and the filename.

Model = DecisionTreeClassifier()

Model.fit(X train, y train)

Filename = "Completed model.joblib"

Joblib.dump(model, filename)

Step 4 – Loading the Saved Model

So here we are loading the saved model by using joblib.load and after loading the model we have used score to get the score of the pretrained saved model.

```
Loaded_model = joblib.load(filename)

Result = loaded_model.score(X_test, y_test)

Print(result)
```

So the output comes as:

0.944444444444444