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| LIBRARY USED  Pandas  scikit-learn |
| FUNCTION USED  Pandas.read\_csv(‘file’)  Pandas.shape  Pandas.describe()  Pandas.values  Pandas.drop()  Sklearn.tree import DecisionTreeClassifier  Joblib.dump(‘file’)  Joblib.load(‘file’)  tree.export\_graphviz |
| TOPIC |
| REMEMBER THIS |
| EXPRESSION EXAMPLE  import pandas as pd  from sklearn.tree import DecisionTreeClassifier  from sklearn.model\_selection import train\_test\_split  from sklearn.metrics import accuracy\_score  music\_data = pd.read\_csv('music.csv')  x = music\_data.drop(columns=['genre'])  y = music\_data['genre']  x\_train, x\_test,y\_train, y\_test = train\_test\_split(x, y, test\_size=0.2)  model = DecisionTreeClassifier()  model.fit(x\_train, y\_train)  predictions = model.predict(x\_test)  score = accuracy\_score(y\_test, predictions)  score |

NOTE:

Machine learning – Steps:

1. Import the data
2. Clean the data
3. Split the data into training/test sets
4. Create a model
5. Train the model
6. Make predictions.
7. Evaluate and improve