

Exp No 3 Implementation of Decision Tree Classification

Aim :-

To implement a decision tree classification technique for gender classification using python.

ALGORITHM

- 1) Import the Decision Tree classification from sklearn.mel
- 2) Initialize the classifier clf as an instance of Decision Tree Classification
- 3) Fit the classifier clf to the data x and y using `clf.fit(x, y)`
- 4) Print the prediction

CODE :-

```
from sklearn import tree
```

```
clf = tree.DecisionTreeClassifier()
```

```
x = [[180, 80, 91], [182, 90, 92], [183, 100, 92],  
     [184, 200, 93], [190, 200, 98], [192, 900, 100]]
```

```
y = ['male', 'male', 'female', 'male', 'female',  
     'male', 'female', 'male', 'male', 'female', 'male']
```

```
clf = clf.fit(x, y)
```

```
prediction = clf.predict([[181, 80, 91]])
```

```
print (prediction)
```

```
print (prediction)
```

OUTPUT:-

['male']

RESULT:-

The implementation of decision tree classification technique for gender classification is successfully executed.



Confer