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In [1]: import pandas as pd
df=pd.read_csv("C:/Users/Mounika/Downloads/salaries.csv")
df
```

Out[1]:

	company	job	degree	salary_more_then_100k
0	google	sales executive	bachelors	0
1	google	sales executive	masters	0
2	google	business manager	bachelors	1
3	google	business manager	masters	1
4	google	computer programmer	bachelors	0
5	google	computer programmer	masters	1
6	abc pharma	sales executive	masters	0
7	abc pharma	computer programmer	bachelors	0
8	abc pharma	business manager	bachelors	0
9	abc pharma	business manager	masters	1
10	facebook	sales executive	bachelors	1
11	facebook	sales executive	masters	1
12	facebook	business manager	bachelors	1
13	facebook	business manager	masters	1
14	facebook	computer programmer	bachelors	1
15	facebook	computer programmer	masters	1

```
In [2]: df.columns
```

Out[2]: Index(['company', 'job', 'degree', 'salary_more_then_100k'], dtype='object')

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In [3]: input=df.drop('salary_more_then_100k',axis=1)
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In [4]: target=df['salary_more_then_100k']
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In [5]: from sklearn.preprocessing import LabelEncoder
company1=LabelEncoder()
job1=LabelEncoder()
degree1=LabelEncoder()
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In [7]: input['company_n']=company1.fit_transform(input['company'])
input['job_n']=job1.fit_transform(input['job'])
input['degree_n']=degree1.fit_transform(input['degree'])
```

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In [8]: inputs_n=input[["company_n","job_n","degree_n"]]
```

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In [9]: from sklearn import tree
model=tree.DecisionTreeClassifier()
model.fit(inputs_n,target)
```

Out[9]: DecisionTreeClassifier()

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In [11]: model.score(inputs_n,target)
```

Out[11]: 1.0

```
In [12]: model.predict([[2,1,0]])
```

Out[12]: array([0], dtype=int64)

```
In [ ]:
```