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In [1]: import pandas as pd
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```
In [2]: df=pd.read_csv('salary.csv')
```

```
In [3]: df.head(2)
```

Out[3]:

	company	job	degree	salary_more_than_100k
0	google	sales executive	bachelors	0
1	google	sales executive	masters	0

```
In [4]: inputs=df.drop('salary_more_than_100k',axis=1)
```

```
In [5]: target=df.salary_more_than_100k
```

```
In [6]: from sklearn.preprocessing import LabelEncoder
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In [7]: le=LabelEncoder()
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```
In [8]: inputs['company_n']=le.fit_transform(inputs.company)
inputs['job_n']=le.fit_transform(inputs.job)
inputs['degree_n']=le.fit_transform(inputs.degree)
```

```
In [9]: inputs.head()
```

Out[9]:

	company	job	degree	company_n	job_n	degree_n
0	google	sales executive	bachelors	2	2	0
1	google	sales executive	masters	2	2	1
2	google	business manager	bachelors	2	0	0
3	google	business manager	masters	2	0	1
4	google	computer programmer	bachelors	2	1	0

```
In [10]: inputs.drop(['company','job','degree'],axis=1,inplace=True)
```

```
In [11]: inputs.head()
```

```
Out[11]:
```

	company_n	job_n	degree_n
0	2	2	0
1	2	2	1
2	2	0	0
3	2	0	1
4	2	1	0

```
In [12]: from sklearn.tree import DecisionTreeClassifier
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In [13]: model=DecisionTreeClassifier()
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In [14]: model.fit(inputs,target)
```

```
Out[14]: DecisionTreeClassifier()
```

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In [15]: model.predict([[2,1,0]])
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```
Out[15]: array([0], dtype=int64)
```

```
In [16]: model.predict_proba([[2,1,0]])
```

```
Out[16]: array([[1., 0.]])
```

```
In [17]: model.score(inputs,target)
```

```
Out[17]: 1.0
```

```
In [ ]:
```