```
import seaborn as sns
import numpy as np
import pandas as pd
from sklearn.model selection import train test split
from sklearn.linear model import LinearRegression
from sklearn.metrics import mean squared error
df=pd.read csv(r"C:\Users\ASUS\Documents\pythonStack\DS PR\
Salary Data.csv")
df.head()
   YearsExperience Salary
0
               1.1 39343.0
1
               1.3 46205.0
2
               1.5 37731.0
3
               2.0 43525.0
4
               2.2 39891.0
df=df.dropna()
x=df['YearsExperience']
y=de['Salary']
xtrain,xtest,ytrain,ytest=train test split(x,y,test size=20)
model=LinearRegression()
xtrain
20
       6.8
28
      10.3
11
       4.0
3
       2.0
23
       8.2
29
      10.5
      7.1
21
18
       5.9
5
       2.9
       3.7
Name: YearsExperience, dtype: float64
xtrain=xtrain.to frame()
model.fit(xtrain,ytrain)
LinearRegression()
predicted salary = model.predict([[15]])
print("Predicted salary for 15 years of experience: \n\n->",
predicted salary[0])
```

Predicted salary for 15 years of experience:

-> 171337.5396536235

C:\Users\ASUS\anaconda3\Lib\site-packages\sklearn\base.py:493:
UserWarning: X does not have valid feature names, but LinearRegression
was fitted with feature names
 warnings.warn(