```
import pandas as pd
import numpy as np
from sklearn import linear_model
import matplotlib.pyplot as plt
from sklearn.linear model import LinearRegression
from sklearn.model_selection import train_test_split
from google.colab import files
uploaded = files.upload()
     Choose Files salary.csv
       salary.csv(text/csv) - 346 bytes, last modified: 3/17/2025 - 100% done
     Saving salarv.csv to salarv.csv
df_salary = pd.read_csv('salary.csv')
print(df_salary.head())
₹
        YearsExperience Salary
                         39343
                   1.1
     1
                   1.3
                          46205
                   1.5
                         37731
     3
                    2.0
                         43525
     4
                    2.2
                         39891
print(df_salary.isnull().sum())

→ YearsExperience

     Salarv
                        0
     dtype: int64
mean years experience = df salary['YearsExperience'].mean()
df_salary['YearsExperience'].fillna(mean_years_experience, inplace=True)
🚁 <ipython-input-5-6f5a7e93c601>:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignme
     The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting value
     For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].me
       df_salary['YearsExperience'].fillna(mean_years_experience, inplace=True)
print(df_salary.isnull().sum())

→ YearsExperience

     Salary
                        0
     dtype: int64
plt.scatter(df_salary['YearsExperience'], df_salary['Salary'], color='blue')
plt.xlabel('Years of Experience')
plt.ylabel('Salary')
plt.title('Years of Experience vs Salary')
plt.show()
```



