# Salary By Years Of Experience

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- 2 Assignment : Salary And Years Of Experience
- 2.0.1 https://www.kaggle.com/datasets/harsh45/random-salary-data-of-employes-age-wise

```
[1]: import pandas as pd
  import numpy as np
  import matplotlib.pyplot as plt
  import seaborn as sns
  from sklearn.model_selection import train_test_split
  from pandas.core.common import random_state
  from sklearn.linear_model import LinearRegression
```

```
[2]: df=pd.read_csv('Salary_Data.xls') df.head()
```

```
[2]: 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
```

#### [3]: df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 30 entries, 0 to 29
Data columns (total 2 columns):

# Column Non-Null Count Dtype
--- ---
O YearsExperience 30 non-null float64

Salary 30 non-null float64

dtypes: float64(2)

memory usage: 612.0 bytes

```
[5]: plt.title('Salary By Years Of Experience')
sns.distplot(df['YearsExperience'])
plt.show()
```

C:\Users\beydaah\AppData\Local\Temp\ipykernel\_13396\3975537158.py:2:
UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

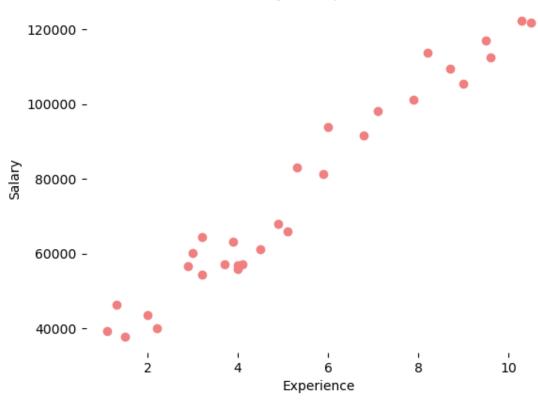
sns.distplot(df['YearsExperience'])

C:\ProgramData\anaconda3\Lib\site-packages\seaborn\\_oldcore.py:1119:
FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.
 with pd.option\_context('mode.use\_inf\_as\_na', True):



```
[6]: plt.scatter(df['YearsExperience'], df['Salary'], color = 'lightcoral')
    plt.title('Salary Vs Experience')
    plt.xlabel('Experience')
    plt.ylabel('Salary')
    plt.box(False)
    plt.show()
```

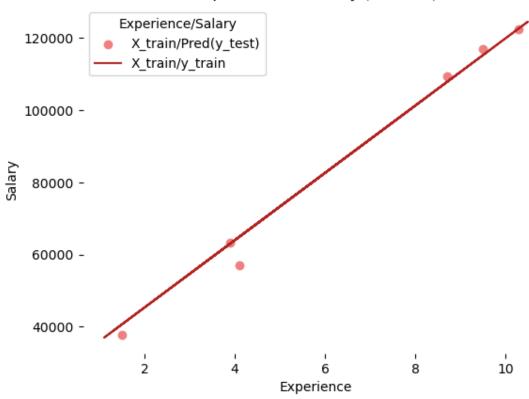
## Salary Vs Experience



### Experience Vs Salary (Training Set)







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