

```

1 #handling missing values using imputation
2 #importing the libraries
3 import pandas as pd
4 import matplotlib.pyplot as plt
5 import seaborn as sns

```

```

1 # loading the dataset to pandas dataframe
2 dataset=pd.read_csv('/content/Placement_Dataset.csv')

```

```
1 dataset.head()
```



	sl_no	gender	ssc_p	ssc_b	hsc_p	hsc_b	hsc_s	degree_p	degree_t	workex
0	1	M	67.00	Others	91.00	Others	Commerce	58.00	Sci&Tech	No
1	2	M	79.33	Central	78.33	Others	Science	77.48	Sci&Tech	Yes
2	3	M	65.00	Central	68.00	Central	Arts	64.00	Comm&Mgmt	No
3	4	M	56.00	Central	52.00	Central	Science	52.00	Sci&Tech	No
4	5	M	85.80	Central	73.60	Central	Commerce	73.30	Comm&Mgmt	No

Next
steps:

[Generate code with dataset](#)



[View recommended plots](#)

[New interactive sheet](#)

```
1 dataset.shape
```



(215, 15)


```
1 dataset.isnull().sum()
```



	0
sl_no	0
gender	0
ssc_p	0
ssc_b	0
hsc_p	0
hsc_b	0
hsc_s	0
degree_p	0
degree_t	0
workex	0
etest_p	0
specialisation	0
mba_p	0
status	0
salary	67

dtype: int64

```
1 # above there are 67 null values in salary column
2 #analyse the distribution of data in the salary
3 fig,ax=plt.subplots(figsize=(5,5))
4 sns.distplot(dataset['salary'])
5 plt.show()
```

 <ipython-input-6-07781a21be3f>:4: UserWarning:

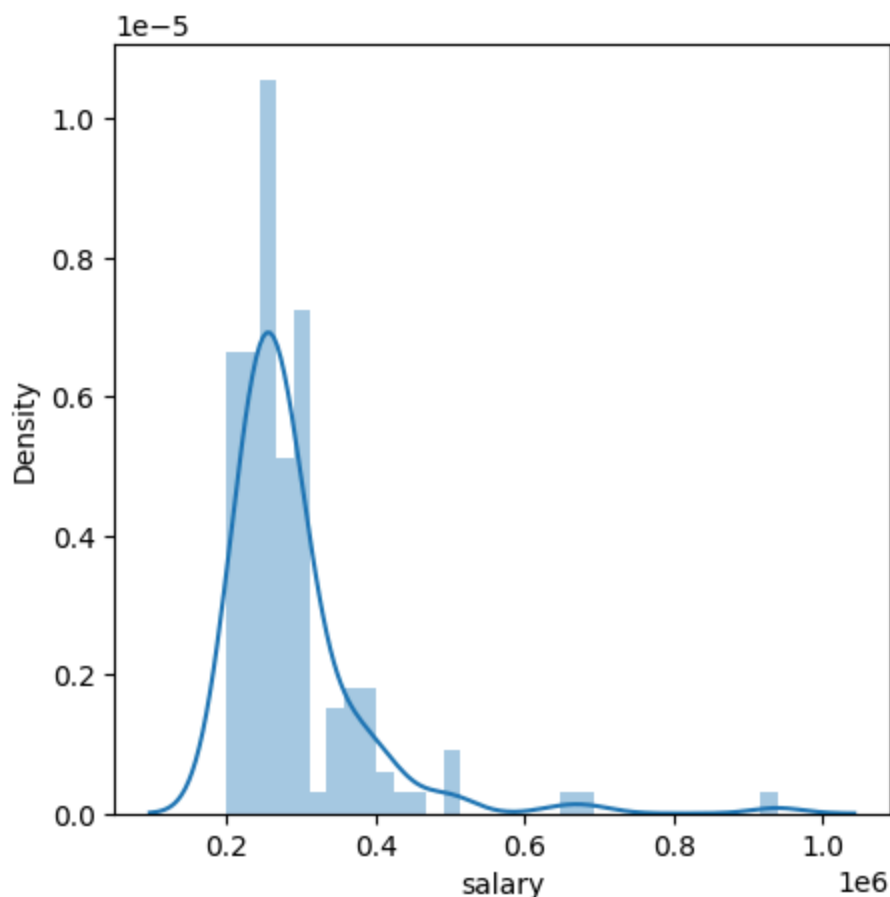
``distplot` is a deprecated function and will be removed in seaborn v0.14.0.`

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(dataset['salary'])
```



we cannot use mean values in the place of graph. it is skew-distribution so we use median, mode


```
1 #replace the missing values with median value
2 dataset['salary'].fillna(dataset['salary'].median(),inplace=True)
```

 <ipython-input-7-36758c657fc5>:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series, and its inplace argument will ignore the DataFrame or Series. The behavior will change in pandas 3.0. This inplace method will never work because the

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col`

```
dataset['salary'].fillna(dataset['salary'].median(),inplace=True)
```

```
1 dataset.isnull().sum()
```




	0
sl_no	0
gender	0
ssc_p	0
ssc_b	0
hsc_p	0
hsc_b	0
hsc_s	0
degree_p	0
degree_t	0
workex	0
etest_p	0
specialisation	0
mba_p	0
status	0
salary	0

dtype: int64

now null values in salaries become 0 above one is imputation technique.

```
1 #dropping technique
2 #dropping all the rows which contains the missing values
3 salary_dataset=pd.read_csv('/content/Placement_Dataset.csv')
```

```
1 salary_dataset.shape
```

 (215, 15)

```
1 salary_dataset.isnull().sum()
```



	0
sl_no	0
gender	0
ssc_p	0
ssc_b	0
hsc_p	0
hsc_b	0
hsc_s	0
degree_p	0
degree_t	0
workex	0
etest_p	0
specialisation	0
mba_p	0
status	0
salary	67

dtype: int64

```
1 salary_dataset=salary_dataset.dropna(how='any')
```

```
1 salary_dataset.isnull().sum()
```



	0
sl_no	0