

```
import pandas as pd
import numpy as np
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error, r2_score
import matplotlib.pyplot as plt
import seaborn as sns
```

```
# Load the dataset
data = pd.read_csv("/content/Instagram-Reach.csv")
print(data.head())
```

```
      Date  Instagram reach
0 2022-04-01T00:00:00      7620
1 2022-04-02T00:00:00     12859
2 2022-04-03T00:00:00     16008
3 2022-04-04T00:00:00     24349
4 2022-04-05T00:00:00     20532
```

```
data.isnull().sum()
```

```
Date      0
Instagram reach  0
dtype: int64
```

```
data = data.dropna()
```

```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 365 entries, 0 to 364
Data columns (total 2 columns):
#   Column          Non-Null Count  Dtype
---  -
0   Date            365 non-null   object
1   Instagram reach  365 non-null   int64
dtypes: int64(1), object(1)
memory usage: 5.8+ KB
```

```
plt.figure(figsize=(5,8))
plt.title('distribution of date in Instagram reach ')
sns.distplot(data['Instagram reach'])
plt.show()
```

```
<ipython-input-6-ca2ab912a1fd>:3: UserWarning:
```

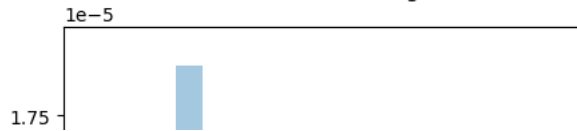
```
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.
```

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(data['Instagram reach'])
```

distribution of date in Instagram reach



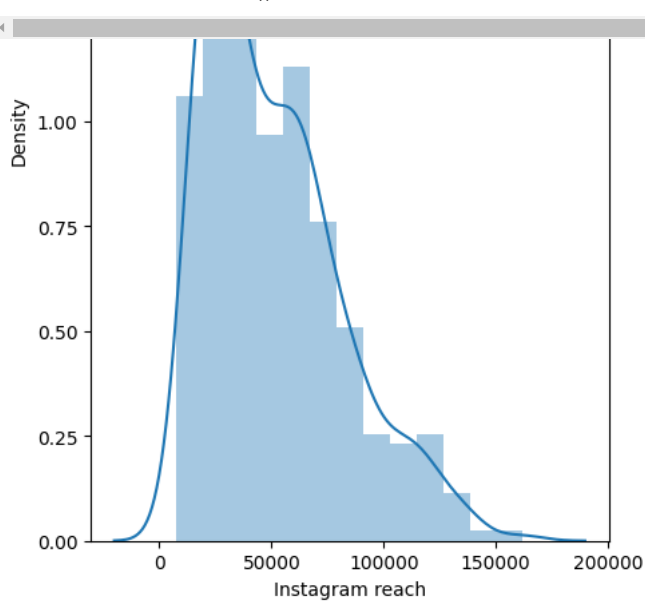
```
correlation = data.corr()
```

```
print(correlation["Instagram reach"].sort_values(ascending=False))
```

```
Instagram reach    1.0
```

```
Name: Instagram reach, dtype: float64
```

```
<ipython-input-22-aaebec5f752>:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, this will raise an error. Please use numeric_only=True to silence this warning, or use the default value to allow this behavior to raise an error in the future.
```



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