

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING.

WEB PHISHING DETECTION (ASSIGNMENT 2)

**DATE** : 26-09-2022

**PROBLEM** : PERFORM TASKS ACCORDINGLY

**OUTPUT** :

**SCREENSHOTS:**

**1.Download the Dataset**

**2.Load the dataset**

```
In [1]: import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import sklearn
```

Matplotlib is building the font cache; this may take a moment.

```
In [2]: data = pd.read_csv(r"C:\Users\hariharan\Downloads\IBM-Assignment-2\Churn_Modelling.csv")
```

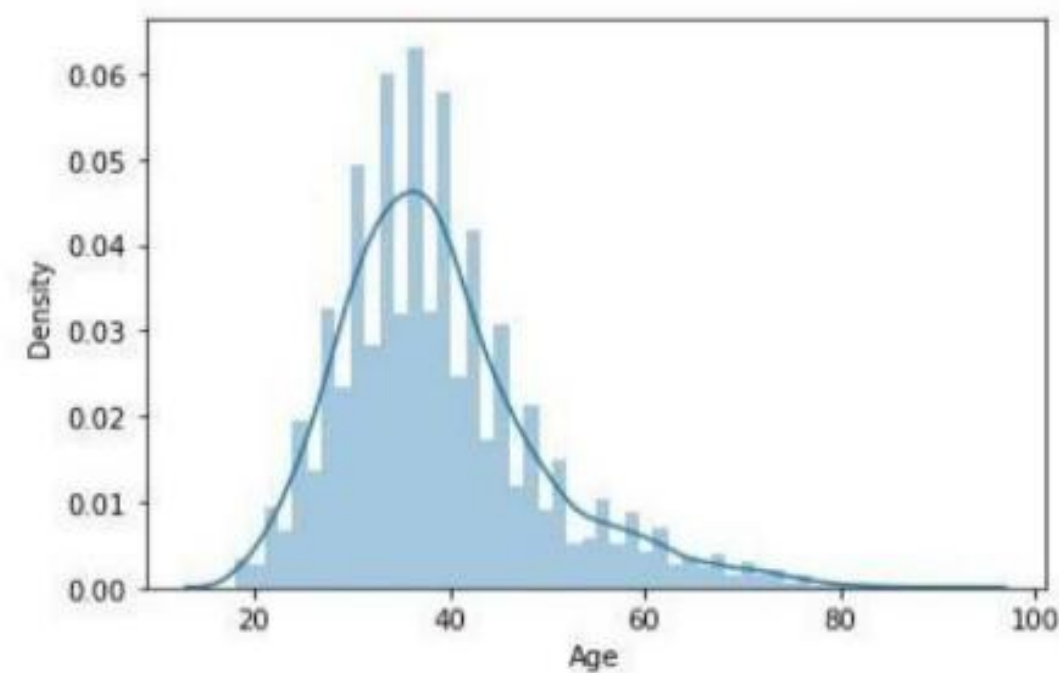
**3.Perform below visualizations**

**Univariate analysis**

```
In [3]: sns.distplot(data['Age'])
```

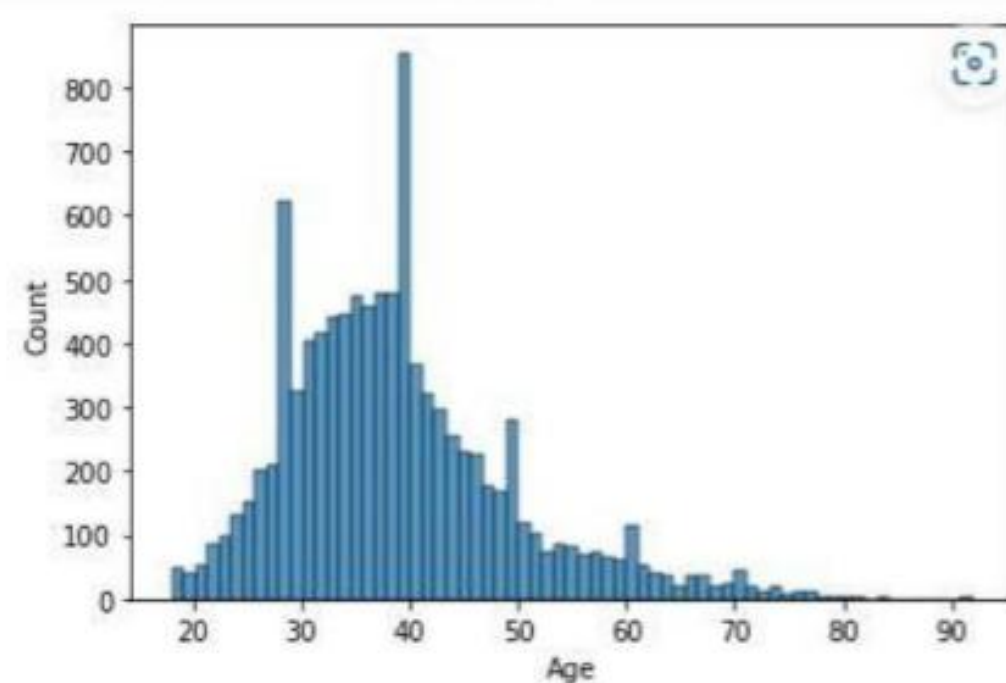
```
D:\anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
warnings.warn(msg, FutureWarning)
```

```
Out[3]: <AxesSubplot:xlabel='Age', ylabel='Density'>
```



```
In [4]: sns.histplot(data['Age'])
```

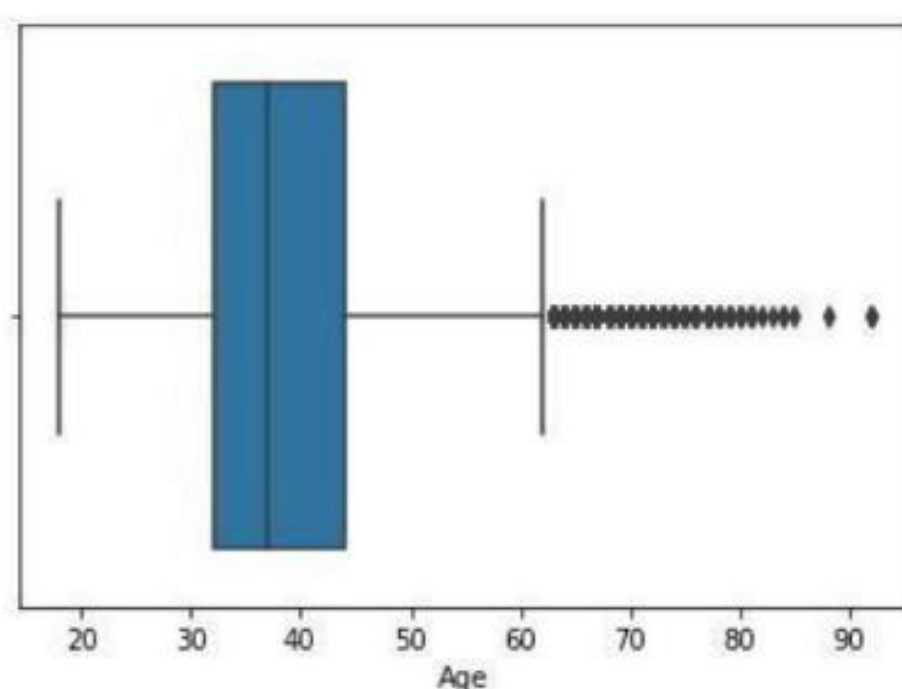
```
Out[4]: <AxesSubplot:xlabel='Age', ylabel='Count'>
```



```
In [5]: sns.boxplot(data['Age'])
```

```
D:\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
warnings.warn(
```

```
Out[5]: <AxesSubplot:xlabel='Age'>
```



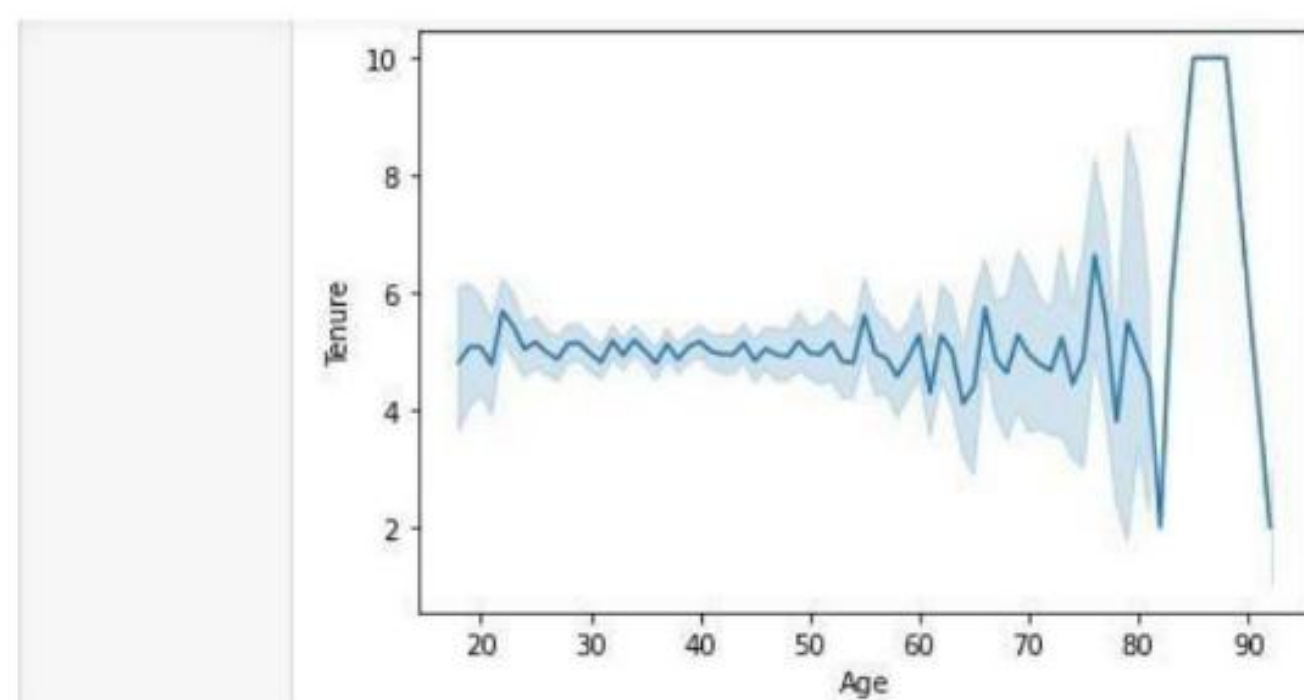
## Bi-Variate Analysis

```
In [6]: sns.lineplot(data['Age'], data['Tenure'])
```

```
D:\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
warnings.warn(
```

```
Out[6]: <AxesSubplot:xlabel='Age', ylabel='Tenure'>
```

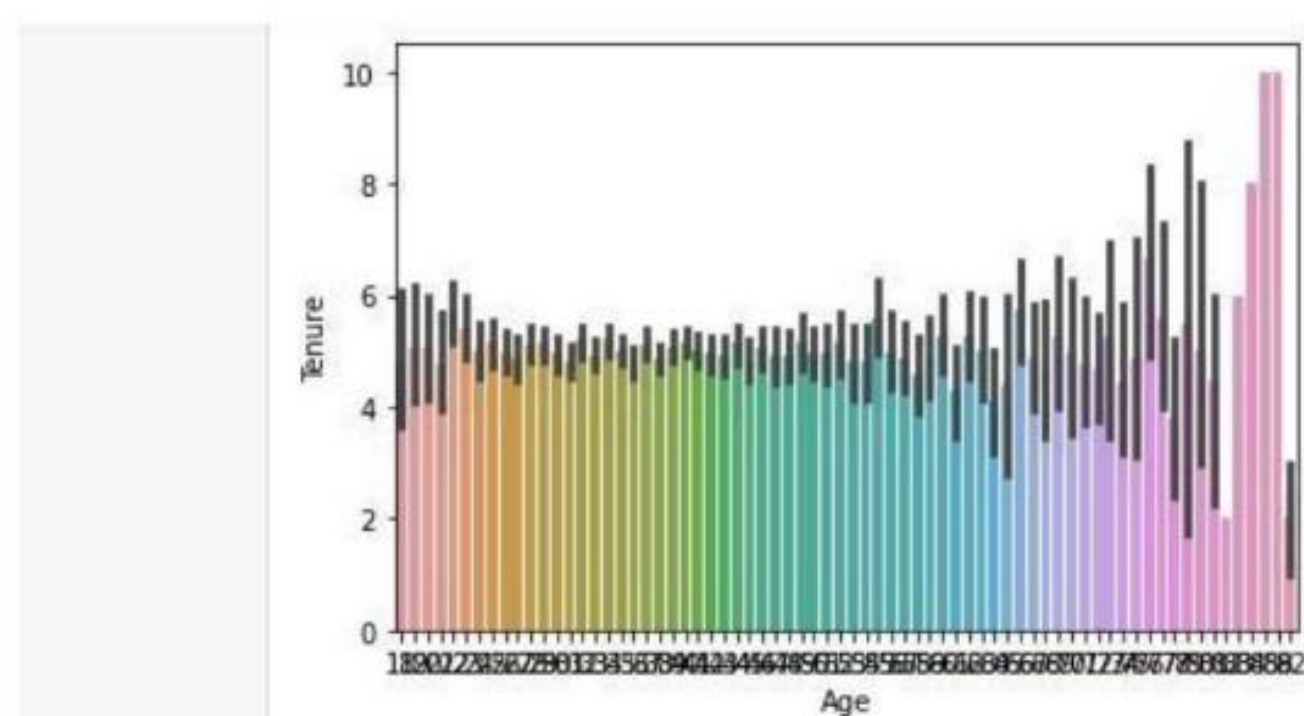




```
In [7]: sns.barplot(data['Age'],data['Tenure'])
```

D:\anaconda3\lib\site-packages\seaborn\\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.  
warnings.warn(

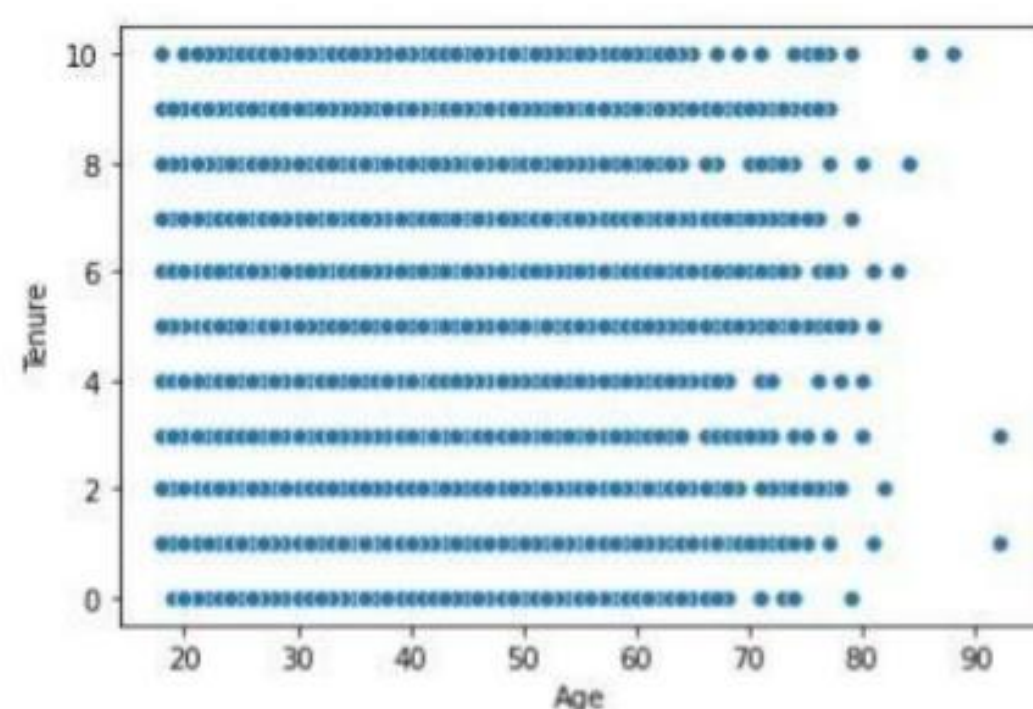
```
Out[7]: <AxesSubplot:xlabel='Age', ylabel='Tenure'>
```



```
In [8]: sns.scatterplot(data['Age'],data['Tenure'])
```

D:\anaconda3\lib\site-packages\seaborn\\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.  
warnings.warn(

```
Out[8]: <AxesSubplot:xlabel='Age', ylabel='Tenure'>
```



## Multi-Variate Analysis

```
In [9]: sns.scatterplot(data['Age'],data['Tenure'], hue=data['IsActiveMember'])
```

D:\anaconda3\lib\site-packages\seaborn\\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.  
warnings.warn(

```
Out[9]: <AxesSubplot:xlabel='Age', ylabel='Tenure'>
```