

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from matplotlib import rcParams
```

2.Load the dataset

In [8]:

```
data=pd.read_csv("Churn_Modelling.csv")
```

In []:

```
data.head()
```

Out[]:

	RowN	Custo	Sur	Credi	Geog	Ge	A	Te	Bala	NumOf	HasC	IsActive	Estimat	Exi
	umbe	merl	nam	tScor	raph	nd	g	nur	nce	Product	rCar	Membe	edSalar	te
	r	d	e	e	y	er	e	e		s	d	r	y	d
0	1	15634602	Hargrave	619	France	Female	42	2	0.00	1	1	1	101348.88	1
1	2	15647311	Hill	608	Spain	Female	41	1	83807.86	1	0	1	112542.58	0
2	3	15619304	Onio	502	France	Female	42	8	159660.80	3	1	0	113931.57	1
3	4	15701354	Boni	699	France	Female	39	1	0.00	2	0	0	93826.63	0
4	5	15737888	Mitchell	850	Spain	Female	43	2	125510.82	1	1	1	79084.10	0

In []:

```
data.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10000 entries, 0 to 9999
Data columns (total 14 columns):
#   Column              Non-Null Count  Dtype
#   ...
```

```

---  -----
0   RowNumber      10000 non-null  int64
1   CustomerId     10000 non-null  int64
2   Surname        10000 non-null  object
3   CreditScore     10000 non-null  int64
4   Geography      10000 non-null  object
5   Gender         10000 non-null  object
6   Age            10000 non-null  int64
7   Tenure         10000 non-null  int64
8   Balance        10000 non-null  float64
9   NumOfProducts  10000 non-null  int64
10  HasCrCard      10000 non-null  int64
11  IsActiveMember 10000 non-null  int64
12  EstimatedSalary 10000 non-null  float64
13  Exited         10000 non-null  int64
dtypes: float64(2), int64(9), object(3)
memory usage: 1.1+ MB

```

In []:

```
data.isnull().any()
```

Out[]:

```

RowNumber      False
CustomerId     False
Surname        False
CreditScore     False
Geography      False
Gender         False
Age            False
Tenure         False
Balance        False
NumOfProducts  False
HasCrCard      False
IsActiveMember False
EstimatedSalary False
Exited         False
dtype: bool

```

3.Perform Below Visualizations. ● Univariate Analysis ● Bi - Variate Analysis ● Multi - Variate Analysis

Univariate Analysis

In []:

```
sns.distplot(data.Age)
```