```
import pandas as pd
 In [1]:
          import numpy as np
          data=pd.read_excel(r"D:\Sid 17-03-2025\SIDDHARTH BOSE\FSDS & GEN AI\March\27th
 In [3]:
          data
 In [5]:
 Out[5]:
              Name
                            Domain
                                        Age
                                              Location
                                                           Salary
                                                                      Exp
          0
               Mike
                      Datascience#$ 34 years
                                               Mumbai
                                                          5^00#0
                                                                      2+
             Teddy^
                             Testing
                                       45' yr Bangalore
                                                       10%%000
                                                                      <3
             Uma#r
                     Dataanalyst^^#
                                        NaN
                                                  NaN
                                                        1$5%000
                                                                   4> yrs
          2
          3
               Jane
                         Ana^^lytics
                                        NaN Hyderbad
                                                          2000^0
                                                                     NaN
             Uttam*
                           Statistics
                                       67-yr
                                                  NaN
                                                          30000-
                                                                  5+ year
          5
                Kim
                               NLP
                                        55yr
                                                  Delhi
                                                         6000^$0
                                                                     10+
          data.head()
 In [7]:
 Out[7]:
              Name
                            Domain
                                        Age
                                              Location
                                                           Salary
                                                                     Exp
          0
               Mike
                      Datascience#$ 34 years
                                               Mumbai
                                                          5^00#0
                                                                      2+
             Teddy^
                             Testing
                                       45' yr Bangalore
                                                        10%%000
                                                                      <3
          2
             Uma#r
                     Dataanalyst^^#
                                        NaN
                                                  NaN
                                                        1$5%000
                                                                   4> yrs
          3
               Jane
                         Ana^^lytics
                                        NaN Hyderbad
                                                          2000^0
                                                                     NaN
             Uttam*
                           Statistics
                                                          30000-
                                                                  5+ year
                                       67-yr
                                                  NaN
          id(data)
 In [9]:
          1802901236400
 Out[9]:
In [11]:
          data.columns
Out[11]: Index(['Name', 'Domain', 'Age', 'Location', 'Salary', 'Exp'], dtype='object')
In [13]:
          data.shape
Out[13]:
          (6, 6)
In [15]: data.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 6 entries, 0 to 5

Data columns (total 6 columns):

| # | Column | Non-Null Count | Dtype |
|-----|----------|----------------|--------|
| | | | |
| 0 | Name | 6 non-null | object |
| 1 | Domain | 6 non-null | object |
| 2 | Age | 4 non-null | object |
| 3 | Location | 4 non-null | object |
| 4 | Salary | 6 non-null | object |
| 5 | Exp | 5 non-null | object |
| 1.6 | | (6) | |

dtypes: object(6)

memory usage: 420.0+ bytes

In [17]: data

Out[17]:

| | Name | Domain | Age | Location | Salary | Ехр |
|---|--------|----------------|----------|-----------|----------|---------|
| 0 | Mike | Datascience#\$ | 34 years | Mumbai | 5^00#0 | 2+ |
| 1 | Teddy^ | Testing | 45' yr | Bangalore | 10%%000 | <3 |
| 2 | Uma#r | Dataanalyst^^# | NaN | NaN | 1\$5%000 | 4> yrs |
| 3 | Jane | Ana^^lytics | NaN | Hyderbad | 2000^0 | NaN |
| 4 | Uttam* | Statistics | 67-yr | NaN | 30000- | 5+ year |
| 5 | Kim | NLP | 55yr | Delhi | 6000^\$0 | 10+ |

In [19]: data.isnull()

Out[19]:

| | Name | Domain | Age | Location | Salary | Ехр |
|---|-------|--------|-------|----------|--------|-------|
| 0 | False | False | False | False | False | False |
| 1 | False | False | False | False | False | False |
| 2 | False | False | True | True | False | False |
| 3 | False | False | True | False | False | True |
| 4 | False | False | False | True | False | False |
| 5 | False | False | False | False | False | False |

In [21]: data.isna()

Data Cleaning or Data Cleansing

```
In [26]: data['Name']
Out[26]:
          0
                 Mike
          1
               Teddy^
          2
                Uma#r
          3
                 Jane
               Uttam*
                  Kim
          Name: Name, dtype: object
          data['Name']=data['Name'].str.replace(r'\W',"",regex=True)
In [30]:
In [32]:
         data
Out[32]:
             Name
                           Domain
                                       Age
                                              Location
                                                          Salary
                                                                     Exp
              Mike
                      Datascience#$
                                    34 years
                                              Mumbai
                                                         5^00#0
                                                                      2+
             Teddy
                            Testing
                                      45' yr
                                             Bangalore
                                                       10%%000
                                                                      <3
                    Dataanalyst^^#
          2
              Umar
                                       NaN
                                                  NaN
                                                        1$5%000
                                                                   4> yrs
          3
                        Ana^^lytics
                                       NaN
                                             Hyderbad
                                                         2000^0
                                                                    NaN
              Jane
             Uttam
                           Statistics
                                       67-yr
                                                  NaN
                                                          30000-
                                                                  5+ year
          5
               Kim
                               NLP
                                       55yr
                                                 Delhi
                                                        6000^$0
                                                                     10+
In [34]:
          data['Domain']=data['Domain'].str.replace(r'\W',"",regex=True)
```

In [42]:

data

```
Out[34]:
              Name
                         Domain
                                      Age
                                             Location
                                                          Salary
                                                                     Exp
           0
               Mike
                     Datascience
                                  34 years
                                              Mumbai
                                                         5^00#0
                                                                      2+
              Teddy
                                     45' yr
                                            Bangalore
                                                       10%%000
                                                                      <3
           1
                          Testing
           2
               Umar
                      Dataanalyst
                                      NaN
                                                 NaN
                                                        1$5%000
                                                                   4> yrs
           3
               Jane
                        Analytics
                                            Hyderbad
                                                         2000^0
                                                                     NaN
                                      NaN
           4
              Uttam
                        Statistics
                                     67-yr
                                                 NaN
                                                          30000-
                                                                  5+ year
           5
                Kim
                             NLP
                                      55yr
                                                Delhi
                                                        6000^$0
                                                                     10+
          data['Age']=data['Age'].str.replace(r'\W',"",regex=True)
In [36]:
Out[36]:
              Name
                         Domain
                                     Age
                                            Location
                                                         Salary
                                                                     Exp
           0
               Mike
                                  34years
                                                        5^00#0
                                                                      2+
                     Datascience
                                             Mumbai
           1
              Teddy
                          Testing
                                     45yr
                                           Bangalore
                                                      10%%000
                                                                      <3
           2
               Umar
                      Dataanalyst
                                     NaN
                                                NaN
                                                       1$5%000
                                                                   4> yrs
           3
               Jane
                        Analytics
                                           Hyderbad
                                                        2000^0
                                                                    NaN
                                     NaN
           4
              Uttam
                        Statistics
                                     67yr
                                                NaN
                                                         30000-
                                                                 5+ year
                             NLP
           5
                Kim
                                     55yr
                                                Delhi
                                                       6000^$0
                                                                     10+
          data['Age']=data['Age'].str.extract(r'(\d+)')
In [38]:
In [40]:
          data
Out[40]:
              Name
                                         Location
                         Domain
                                   Age
                                                      Salary
                                                                  Exp
                                                                   2+
           0
               Mike
                                    34
                                          Mumbai
                                                      5^00#0
                     Datascience
              Teddy
                                                    10%%000
                          Testing
                                    45
                                         Bangalore
                                                                   <3
           2
                      Dataanalyst
                                                    1$5%000
               Umar
                                  NaN
                                              NaN
                                                                4> yrs
           3
               Jane
                        Analytics
                                  NaN
                                         Hyderbad
                                                      2000^0
                                                                 NaN
           4
              Uttam
                        Statistics
                                    67
                                              NaN
                                                      30000-
                                                               5+ year
           5
                             NLP
                                    55
                                                     6000^$0
                                                                  10+
                Kim
                                             Delhi
```

data['Salary']=data['Salary'].str.replace(r"\W","",regex=True)

| Out[42]: | | Name | Domain | Age | Location | Salary | Ехр | | | | |
|----------|----------|---|--------------|--------|------------|---------|---------|--|--|--|--|
| | 0 | Mike | Datascience | 34 | Mumbai | 5000 | 2+ | | | | |
| | 1 | Teddy | Testing | 45 | Bangalore | 10000 | <3 | | | | |
| | 2 | Umar | Dataanalyst | NaN | NaN | 15000 | 4> yrs | | | | |
| | 3 | Jane | Analytics | NaN | Hyderbad | 20000 | NaN | | | | |
| | 4 | Uttam | Statistics | 67 | NaN | 30000 | 5+ year | | | | |
| | 5 | Kim | NLP | 55 | Delhi | 60000 | 10+ | | | | |
| | | | | | | _ | , | | | | |
| In [44]: | da | <pre>data['Location']=data['Location'].str.replace(r'\W','',regex=True)</pre> | | | | | | | | | |
| In [46]: | da | ta | | | | | | | | | |
| Out[46]: | Name | | Domain | Age | Location | Salary | Ехр | | | | |
| | 0 | Mike | Datascience | 34 | Mumbai | 5000 | 2+ | | | | |
| | 1 | Teddy | Testing | 45 | Bangalore | 10000 | <3 | | | | |
| | 2 | Umar | Dataanalyst | NaN | NaN | 15000 | 4> yrs | | | | |
| | 3 | Jane | Analytics | NaN | Hyderbad | 20000 | NaN | | | | |
| | 4 | Uttam | Statistics | 67 | NaN | 30000 | 5+ year | | | | |
| | 5 | Kim | NLP | 55 | Delhi | 60000 | 10+ | | | | |
| | | | | | | | | | | | |
| In [48]: | da da | | ']=data['Exp | o'].st | r.extract(| r'(\d+) | ') | | | | |
| Out[48]: | | Name | Domain | Age | Location | Salary | Ехр | | | | |
| | 0 | Mike | Datascience | 34 | Mumbai | 5000 | 2 | | | | |
| | 1 | Teddy | Testing | 45 | Bangalore | 10000 | 3 | | | | |
| | 2 | Umar | Dataanalyst | NaN | NaN | 15000 | 4 | | | | |
| | 3 | Jane | Analytics | NaN | Hyderbad | 20000 | NaN | | | | |
| | 4 | Uttam | Statistics | 67 | NaN | 30000 | 5 | | | | |
| | 5 | Kim | NLP | 55 | Delhi | 60000 | 10 | | | | |

till now we have raw data we use regex to clean all nosiy data ad cancel from main data

Apply EDA Technique

In [102... clean_data=data.copy()

```
In [104...
                                        clean_data
Out[104...
                                                     Name
                                                                                          Domain
                                                                                                                           Age
                                                                                                                                                   Location Salary
                                                                                                                                                                                                                    Exp
                                         0
                                                        Mike
                                                                              Datascience
                                                                                                                                 34
                                                                                                                                                      Mumbai
                                                                                                                                                                                            5000
                                                                                                                                                                                                                             2
                                                     Teddy
                                                                                              Testing
                                                                                                                                 45
                                                                                                                                                Bangalore
                                                                                                                                                                                       10000
                                                                                                                                                                                                                             3
                                         2
                                                      Umar
                                                                                Dataanalyst
                                                                                                                           NaN
                                                                                                                                                                  NaN
                                                                                                                                                                                       15000
                                                                                                                                                                                                                            4
                                                         Jane
                                                                                        Analytics
                                                                                                                           NaN
                                                                                                                                                 Hyderbad
                                                                                                                                                                                       20000
                                                                                                                                                                                                                 NaN
                                         4
                                                    Uttam
                                                                                         Statistics
                                                                                                                                 67
                                                                                                                                                                 NaN
                                                                                                                                                                                        30000
                                                                                                                                                                                                                             5
                                                                                                       NLP
                                         5
                                                            Kim
                                                                                                                                  55
                                                                                                                                                                Delhi
                                                                                                                                                                                       60000
                                                                                                                                                                                                                         10
                                        clean_data['Age']=clean_data['Age'].fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.mean(pd.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age']).fillna(np.to_numeric(clean_data['Age'
In [106...
In [108...
                                        clean_data['Age']
Out[108...
                                                                        34
                                         0
                                         1
                                                                        45
                                                           50.25
                                         2
                                         3
                                                       50.25
                                         4
                                                                        67
                                                                        55
                                         Name: Age, dtype: object
                                       clean_data['Exp']
In [110...
Out[110...
                                         0
                                                                    2
                                                                    3
                                         2
                                                                    4
                                                           NaN
                                                                    5
                                                                 10
                                         Name: Exp, dtype: object
                                        clean_data['Exp']=clean_data['Exp'].fillna(np.mean(pd.to_numeric(clean_data['Exp
In [112...
                                        clean_data['Exp']
In [114...
Out[114...
                                         0
                                                                    2
                                         1
                                                                    3
                                         2
                                                                    4
                                         3
                                                            4.8
                                         4
                                                                    5
                                                                 10
                                         Name: Exp, dtype: object
In [116...
                                        clean_data
```

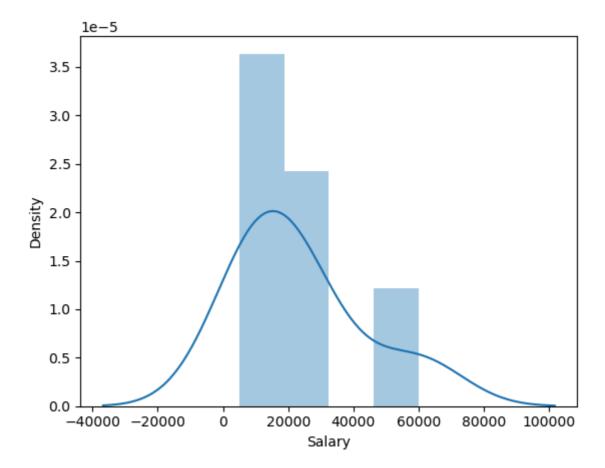
| Out[116 | | Name | Domain | Age | Location | Salary | Ехр | | | |
|---------|--|---------|------------------|---------|-------------|----------|-------|--|--|--|
| | 0 | Mike | Datascience | 34 | Mumbai | 5000 | 2 | | | |
| | 1 | Teddy | Testing | 45 | Bangalore | 10000 | 3 | | | |
| | 2 | Umar | Dataanalyst | 50.25 | NaN | 15000 | 4 | | | |
| | 3 | Jane | Analytics | 50.25 | Hyderbad | 20000 | 4.8 | | | |
| | 4 | Uttam | Statistics | 67 | NaN | 30000 | 5 | | | |
| | 5 | Kim | NLP | 55 | Delhi | 60000 | 10 | | | |
| T. [110 | -1 | | - Fill a catifan | 11 : | .11/\/ | | | | | |
| In [118 | | ean_dat | a['Location | J.1Sht | III().Sum(|) | | | | |
| Out[118 | 2 | | | | | | | | | |
| In [120 | cl | ean_dat | a['Location | ']=clea | an_data['Lo | ocation' |].fi] | | | |
| In [122 | clo | ean_dat | a['Location | '] | | | | | | |
| Out[122 | <pre>Mumbai Bangalore Bangalore Hyderbad Bangalore Delhi Name: Location, dtype: object</pre> | | | | | | | | | |
| In [124 | cl | ean_dat | a | | | | | | | |
| ot[124 | | Name | Domain | Age | Location | Salary | Ехр | | | |
| | 0 | Mike | Datascience | 34 | Mumbai | 5000 | 2 | | | |
| | 1 | Teddy | Testing | 45 | Bangalore | 10000 | 3 | | | |
| | 2 | Umar | Dataanalyst | 50.25 | Bangalore | 15000 | 4 | | | |
| | 3 | Jane | Analytics | 50.25 | Hyderbad | 20000 | 4.8 | | | |
| | 4 | Uttam | Statistics | 67 | Bangalore | 30000 | 5 | | | |
| | 5 | Kim | NLP | 55 | Delhi | 60000 | 10 | | | |
| In [126 | clo | ean_dat | a.info() | | | | | | | |

```
<class 'pandas.core.frame.DataFrame'>
          RangeIndex: 6 entries, 0 to 5
          Data columns (total 6 columns):
           # Column Non-Null Count Dtype
          --- -----
          0 Name 6 non-null object
1 Domain 6 non-null object
2 Δσε 6 non-null object
           3 Location 6 non-null object
4 Salary 6 non-null object
5 Exp 6 non-null object
          dtypes: object(6)
          memory usage: 420.0+ bytes
In [128...
           clean_data['Age']=clean_data['Age'].astype(int)
In [130...
          clean data.info()
          <class 'pandas.core.frame.DataFrame'>
          RangeIndex: 6 entries, 0 to 5
          Data columns (total 6 columns):
           # Column Non-Null Count Dtype
          --- ----- -----
           0 Name 6 non-null
                                          object
          1 Domain 6 non-null object
2 Age 6 non-null int32
3 Location 6 non-null object
4 Salary 6 non-null object
5 Exp 6 non-null object
          dtypes: int32(1), object(5)
          memory usage: 396.0+ bytes
           clean_data['Salary']=clean_data['Salary'].astype(int)
In [131...
           clean_data['Exp']=clean_data['Exp'].astype(int)
In [133...
          clean_data.info()
          <class 'pandas.core.frame.DataFrame'>
          RangeIndex: 6 entries, 0 to 5
          Data columns (total 6 columns):
           # Column Non-Null Count Dtype
                        -----
          ---
          0 Name 6 non-null object
1 Domain 6 non-null object
2 Age 6 non-null int32
3 Location 6 non-null object
           4 Salary 6 non-null
                                           int32
                         6 non-null
           5
               Exp
                                            int32
          dtypes: int32(3), object(3)
          memory usage: 348.0+ bytes
In [136...
           clean_data['Name'] = clean_data['Name'].astype('category')
           clean_data['Domain'] = clean_data['Domain'].astype('category')
           clean_data['Location'] = clean_data['Location'].astype('category')
          clean_data.info()
In [138...
```

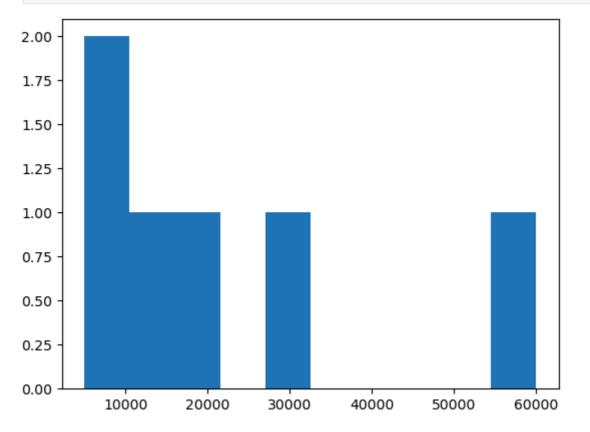
```
<class 'pandas.core.frame.DataFrame'>
         RangeIndex: 6 entries, 0 to 5
         Data columns (total 6 columns):
          # Column Non-Null Count Dtype
         --- ----- -----
          0 Name 6 non-null category
1 Domain 6 non-null category
          2 Age 6 non-null
                                       int32
          3 Location 6 non-null category
4 Salary 6 non-null int32
5 Exp 6 non-null int32
          5 Exp
                                        int32
                       6 non-null
         dtypes: category(3), int32(3)
         memory usage: 866.0 bytes
          clean_data.to_csv('Clean_data.csv')
In [146...
In [150...
          import os
          os.getcwd()
Out[150... 'C:\\Users\\siddharth.bose'
```

Visualizing the Data using Matplotlib and Seaborn

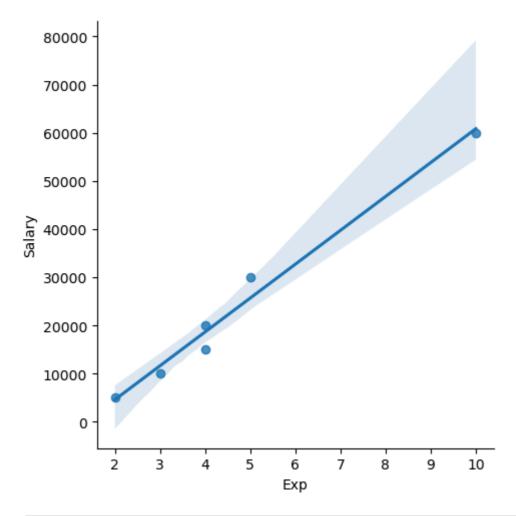
```
In [153...
          import matplotlib.pyplot as plt
          import seaborn as sns
In [157...
          import warnings
          warnings.filterwarnings('ignore')
In [159...
         clean_data['Salary']
Out[159... 0
               5000
          1
               10000
          2 15000
          3
               20000
               30000
               60000
          Name: Salary, dtype: int32
In [163...
          vis1= sns.distplot(clean_data['Salary']) #Univariate Analysis
          plt.show()
```



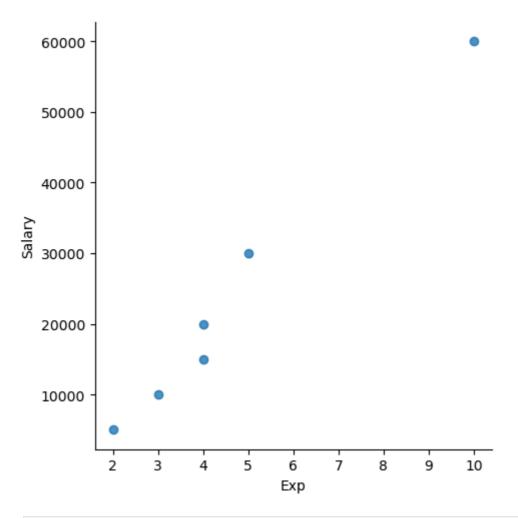
In [165... vis2 = plt.hist(clean_data['Salary']) #univariate Analysis
 plt.show()



In [167... vis3 = sns.lmplot(data = clean_data,x = 'Exp',y = 'Salary') #Bivariate Analysis
plt.show()



In [169... vis4 = sns.lmplot(data= clean_data,x='Exp',y = 'Salary',fit_reg=False) #Bivariat
plt.show()



In [171... clean_data[:]

| \cap | +- | Г 1 | 7 | 1 |
|--------|----|-----|-----|-----|
| υu | L | LΤ | . / | Δ., |

| | Name | Domain | Age | Location | Salary | Ехр |
|---|-------|-------------|-----|-----------|--------|-----|
| 0 | Mike | Datascience | 34 | Mumbai | 5000 | 2 |
| 1 | Teddy | Testing | 45 | Bangalore | 10000 | 3 |
| 2 | Umar | Dataanalyst | 50 | Bangalore | 15000 | 4 |
| 3 | Jane | Analytics | 50 | Hyderbad | 20000 | 4 |
| 4 | Uttam | Statistics | 67 | Bangalore | 30000 | 5 |
| 5 | Kim | NLP | 55 | Delhi | 60000 | 10 |

In [173... clean_data[0:6:2]

Out[173...

| | Name | Domain | Age | Location | Salary | Ехр |
|---|-------|-------------|-----|-----------|--------|-----|
| 0 | Mike | Datascience | 34 | Mumbai | 5000 | 2 |
| 2 | Umar | Dataanalyst | 50 | Bangalore | 15000 | 4 |
| 4 | Uttam | Statistics | 67 | Bangalore | 30000 | 5 |

In [175... clean_data.columns

Out[175... Index(['Name', 'Domain', 'Age', 'Location', 'Salary', 'Exp'], dtype='object')

```
X_iv = clean_data[['Name', 'Domain', 'Age', 'Location', 'Exp']] #Extracting the
In [177...
In [179...
           X_iv
Out[179...
               Name
                          Domain
                                   Age
                                          Location Exp
                Mike
                                                       2
            0
                      Datascience
                                     34
                                           Mumbai
            1
               Teddy
                           Testing
                                     45
                                         Bangalore
                                                       3
            2
               Umar
                       Dataanalyst
                                     50
                                         Bangalore
                                                       4
            3
                Jane
                         Analytics
                                     50
                                         Hyderbad
            4
               Uttam
                          Statistics
                                         Bangalore
                                                       5
                                     67
            5
                 Kim
                              NLP
                                     55
                                              Delhi
                                                      10
In [181...
           y_dv = clean_data[['Salary']]
           y_dv
Out[181...
               Salary
                5000
            0
               10000
            1
               15000
            2
               20000
            3
               30000
               60000
In [183...
           clean_data
Out[183...
               Name
                          Domain
                                   Age
                                          Location
                                                    Salary Exp
            0
                Mike
                      Datascience
                                     34
                                           Mumbai
                                                      5000
                                                               2
               Teddy
                                         Bangalore
                                                     10000
                                                               3
            1
                           Testing
                                     45
            2
                       Dataanalyst
                                                     15000
               Umar
                                     50
                                         Bangalore
                                                               4
                Jane
                                         Hyderbad
                                                     20000
            3
                         Analytics
                                     50
                                                     30000
                                                               5
            4
               Uttam
                          Statistics
                                     67
                                         Bangalore
                              NLP
                                     55
                                              Delhi
                                                     60000
            5
                 Kim
                                                              10
In [185...
           X_iv
```

| Out[185 | | Name | D | omain | Age | Locat | ion | Ехр | | | |
|---------|-----|------------------|----------|----------|--------|---------|-------|-------|-----------|------------|-----------|
| | 0 | Mike | Datas | cience | 34 | Mum | nbai | 2 | | | |
| | 1 | Teddy | , 1 | esting | 45 | Bangal | lore | 3 | | | |
| | 2 | Umar | Dataa | analyst | 50 | Bangal | lore | 4 | | | |
| | 3 | Jane | An | alytics | 50 | Hyderl | bad | 4 | | | |
| | 4 | Uttam | Sta | atistics | 67 | Bangal | lore | 5 | | | |
| | 5 | Kim | l | NLP | 55 | D | elhi | 10 | | | |
| | | | | | | | | | | | |
| In [187 | у_ | dv | | | | | | | | | |
| Out[187 | | Salary | <u>'</u> | | | | | | | | |
| | 0 | 5000 |) | | | | | | | | |
| | 1 | 10000 |) | | | | | | | | |
| | 2 | 15000 |) | | | | | | | | |
| | 3 | 20000 |) | | | | | | | | |
| | 4 | 30000 |) | | | | | | | | |
| | 5 | 60000 |) | | | | | | | | |
| In [189 | | putati putati | on = po | d.get_ | dummie | es(clea | ın_da | ta) | | | |
| Out[189 | | Age | Salary | Ехр | Name_ | _Jane | Name | e_Kim | Name_Mike | Name_Teddy | Name_Umar |
| | 0 | 34 | 5000 | 2 | | False | | False | True | False | False |
| | 1 | 45 | 10000 | 3 | | False | | False | False | True | False |
| | 2 | 50 | 15000 | 4 | | False | | False | False | False | True |
| | 3 | 50 | 20000 | 4 | | True | | False | False | False | False |
| | 4 | 67 | 30000 | 5 | | False | | False | False | False | False |
| | 5 | 55 | 60000 | 10 | | False | | True | False | False | False |
| | 4 (| | | | | | | | | | • |
| In []: | | | | | | | | | | | |