PNT2022TMID21280_Efficient Water Quality Analysis & Prediction using Machine Learning.

Handling Missing Values-2:

```
In [9]:  data.dtypes
```

```
Out[9]:  STATION CODE                            object
         LOCATIONS                               object
         STATE                                   object
         Temp                                    object
         D.O. (mg/l)                             object
         PH                                      object
         CONDUCTIVITY (µmhos/cm)                 object
         B.O.D. (mg/l)                           object
         NITRATENAN N+ NITRITENANN (mg/l)        object
         FECAL COLIFORM (MPN/100ml)              object
         TOTAL COLIFORM (MPN/100ml)Mean          object
         year                                     int64
         dtype: object
```

```
In [10]:  data['Temp']=pd.to_numeric(data['Temp'],errors='coerce')
          data['D.O. (mg/l)']=pd.to_numeric(data['D.O. (mg/l)'],errors='coerce')
          data['PH']=pd.to_numeric(data['PH'],errors='coerce')
          data['CONDUCTIVITY (µmhos/cm)']=pd.to_numeric(data['CONDUCTIVITY (µmhos/cm)'],errors='coerce')
          data['B.O.D. (mg/l)']=pd.to_numeric(data['B.O.D. (mg/l)'],errors='coerce')
          data['NITRATENAN N+ NITRITENANN (mg/l)']=pd.to_numeric(data['NITRATENAN N+ NITRITENANN (mg/l)'],errors='coerce')
          data['TOTAL COLIFORM (MPN/100ml)Mean']=pd.to_numeric(data['TOTAL COLIFORM (MPN/100ml)Mean'],errors='coerce')
          data.dtypes
```

```
Out[10]:  STATION CODE                            object
          LOCATIONS                               object
          STATE                                   object
          Temp                                    float64
          D.O. (mg/l)                             float64
          PH                                      float64
          CONDUCTIVITY (µmhos/cm)                 float64
          B.O.D. (mg/l)                           float64
          NITRATENAN N+ NITRITENANN (mg/l)        float64
          FECAL COLIFORM (MPN/100ml)              object
          TOTAL COLIFORM (MPN/100ml)Mean          float64
          year                                     int64
          dtype: object
```

```
In [11]: data.isnull().sum()
```

```
Out[11]: STATION CODE                              0
         LOCATIONS                                 0
         STATE                                     0
         Temp                                     92
         D.O. (mg/l)                              31
         PH                                        8
         CONDUCTIVITY (µmhos/cm)                  25
         B.O.D. (mg/l)                            43
         NITRATENAN N+ NITRITENANN (mg/l)        225
         FECAL COLIFORM (MPN/100ml)                0
         TOTAL COLIFORM (MPN/100ml)Mean          132
         year                                      0
         dtype: int64
```