

TEAM ID	PNT2022TMID52107
PROJECT NAME	Efficient Water Quality Analysis and Prediction using Machine Learning

Handling missing values 2:

```
In [10]: data.dtypes
```

```
Out[10]: 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 [18]: data['Temp'].fillna(data['Temp'].mean(),inplace=True)
data['D.O. (mg/l)'].fillna(data['D.O. (mg/l)'].mean(),inplace=True)
data['PH'].fillna(data['PH'].mean(),inplace=True)
data['CONDUCTIVITY (µmhos/cm)'].fillna(data['CONDUCTIVITY (µmhos/cm)'].mean(),inplace=True)
data['B.O.D. (mg/l)'].fillna(data['B.O.D. (mg/l)'].mean(),inplace=True)
data['NITRATENAN N+ NITRITENANN (mg/l)'].fillna(data['NITRATENAN N+ NITRITENANN (mg/l)'].mean(),inplace=True)
data['TOTAL COLIFORM (MPN/100ml)Mean'].fillna(data['TOTAL COLIFORM (MPN/100ml)Mean'].mean(),inplace=True)
```

```
In [338]: data.dtypes
```

```
Out[338]: 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 [340]: data.isnull().sum()
```

```
Out[340]: 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
```

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