Team ID	PNT2022TMID25561
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning

ANALYSING THE DATA:

In [5]:	data.	head())										
Out[5]:		ATION	LOCATIONS	STATE	Temp	D.O. (mg/l)	РН	CONDUCTIV (µmhos/o	ITY cm)	B.O.D. (mg/l)	NITRATENAN N+ NITRITENANN (mg/l)	FECAL COLIFORM (MPN/100ml)	TOTAL COLIFORM (MPN/100ml)Mean
	0	1393	DAMANGANGA AT D/S OF MADHUBAN, DAMAN	DAMAN & DIU	30.6	6.7	7.5	:	203	NAN	0.1	11	27
	1	1399	ZUARI AT D/S OF PT. WHERE KUMBARJRIA CANAL JOI	GOA	29.8	5.7	7.2		189	2	0.2	4953	8391
	2	1475	ZUARI AT PANCHAWADI	GOA	29.5	6.3	6.9		179	1.7	0.1	3243	5330
	3	3181	RIVER ZUARI AT BORIM BRIDGE	GOA	29.7	5.8	6.9		64	3.8	0.5	5382	8443
	4	3182	RIVER ZUARI AT MARCAIM JETTY	GOA	29.5	5.8	7.3		83	1.9	0.4	3428	5500
	4)
In [6]:	data.describe()												
Out[6]:			year										
	count	1991.	000000										
	mean	2010.	038172										
	std	3.	057333										
	min	2003.	000000										
	25%	2008.	000000										
	50%	2011.	000000										
	75%	000000											
	max	2014.	000000										
In [7]:	data.	info())										
	<pre><class 'pandas.core.frame.dataframe'=""> RangeIndex: 1991 entries, 0 to 1990 Data columns (total 12 columns): # Column 0 STATION CODE 1 LOCATIONS 2 STATE 3 Temp 4 D.O. (mg/1) 5 PH 6 CONDUCTIVITY (µmhos/cm) 7 B.O.D. (mg/1) 8 NITRATENAN N+ NITRITENANN (mg/1) 9 FECAL COLIFORM (MPN/100m1) 10 TOTAL COLIFORM (MPN/100m1)Mean</class></pre>					Nor 199 199 199 199 199 199 199 199	01 no 01 no 01 no 01 no 01 no 01 no 01 no 01 no 01 no	on-null connull connul con	otypo objeo objeo objeo objeo objeo objeo objeo objeo objeo	ct ct ct ct ct ct ct			