TEAM ID	PNT2022TMID11378
PROJECT NAME	Efficient Water Quality Analysis and Prediction using Machine Learning

Water Quality Index Calculation 3

Calculation of Water Quality Index WQI

	data data data data	a['wbd a['wed a['wna a['wcd a['wqi	']=data.ndo*0.2 lo']=data.nbdo*0 ']=data.nec*0.0 ']=data.nna*0.0 ']=data.nco*0.2 ']=data.wph+dat	0.234 009 028 081	data.wbdo	+dat	ta.wec	+data	.wna+dat	a.wco											
	station		location	state	Temp	do	ph	со	bod	na	tc	year	nph	ndo	nco	nbdo	nec	nna	wph	wdo	wbdo
	0	1393	DAMANGANGA AT D/S OF MADHUBAN, DAMAN	DAMAN & DIU	30.600000	6.7	7.5	203.0	6.940049	0.100000	27.0	2014	100	100	80	60	60	100	16.5	28.10	14.04
	1	1399	ZUARI AT D/S OF PT. WHERE KUMBARJRIA CANAL JOI	GOA	29.800000	5.7	7.2	189.0	2.000000	0.200000	8391.0	2014	100	100	40	100	60	100	16.5	28.10	23.40
	2	1475	ZUARI AT PANCHAWADI	GOA	29.500000	6.3	6.9	179.0	1.700000	0.100000	5330.0	2014	80	100	40	100	60	100	13.2	28.10	23.40
	3	3181	RIVER ZUARI AT BORIM BRIDGE	GOA	29.700000	5.8	6.9	64.0	3.800000	0.500000	8443.0	2014	80	100	40	80	100	100	13.2	28.10	18.72
	4	3182	RIVER ZUARI AT MARCAIM JETTY	GOA	29.500000	5.8	7.3	83.0	1.900000	0.400000	5500.0	2014	100	100	40	100	80	100	16.5	28.10	23.40
		522		199	***			***				*17							100		
1	986	1330	TAMBIRAPARANI AT ARUMUGANERI, TAMILNADU	NAN	26.209814	7.9	738.0	7.2	2.700000	0.518000	202.0	2003	0	100	60	100	100	100	0.0	28.10	23.40
1	987	1450	PALAR AT VANIYAMBADI WATER SUPPLY HEAD WORK, T	NAN	29.000000	7.5	585.0	6.3	2.600000	0.155000	315.0	2003	0	100	60	100	100	100	0.0	28.10	23.40
1	988	1403	GUMTI AT U/S SOUTH TRIPURA,TRIPURA	NAN	28.000000	7.6	98.0	6.2	1.200000	1.623079	570.0	2003	0	100	40	100	100	100	0.0	28.10	23.40
1	989	1404	GUMTI AT D/S SOUTH TRIPURA, TRIPURA	NAN	28.000000	7.7	91.0	6.5	1.300000	1.623079	562.0	2003	0	100	40	100	100	100	0.0	28.10	23.40
1	990	1726	CHANDRAPUR, AGARTALA D/S OF HAORA RIVER, TRIPURA	NAN	29.000000	7.6	110.0	5.7	1.100000	1.623079	546.0	2003	0	80	40	100	100	100		22.48 Ctiva	23.40 ate V

Calculation of overall WQI for each year