

	City	Date	PM2.5	PM10	NO	NO2	NOx	NH3	CO	SO2	O3	Benzene	Toluene	Xylene	AQI	AQI_Bucket
0	Ahmedabad	2015-01-01	NaN	NaN	0.92	18.22	17.15	NaN	0.92	27.64	133.36	0.00	0.02	0.00	NaN	NaN
1	Ahmedabad	2015-01-02	NaN	NaN	0.97	15.69	16.46	NaN	0.97	24.55	34.06	3.68	5.50	3.77	NaN	NaN
2	Ahmedabad	2015-01-03	NaN	NaN	17.40	19.30	29.70	NaN	17.40	29.07	30.70	6.80	16.40	2.25	NaN	NaN
3	Ahmedabad	2015-01-04	NaN	NaN	1.70	18.48	17.97	NaN	1.70	18.59	36.08	4.43	10.14	1.00	NaN	NaN
4	Ahmedabad	2015-01-05	NaN	NaN	22.10	21.42	37.76	NaN	22.10	39.33	39.31	7.01	18.89	2.78	NaN	NaN

RandomForestClassifier

RandomForestClassifier(random_state=42)

	precision	recall	f1-score	support
Good	0.85	0.65	0.74	282
Moderate	0.81	0.86	0.84	1745
Poor	0.69	0.64	0.66	555
Satisfactory	0.85	0.86	0.85	1655
Severe	0.85	0.79	0.82	271
Very Poor	0.76	0.74	0.75	462
accuracy			0.81	4970
macro avg	0.80	0.76	0.78	4970
weighted avg	0.81	0.81	0.81	4970



