UEA - Universidade do Estado do Amazonas

PÓS-Gradução Desenvolvimento de Software em Alto Desempenho

Tipos de Dados Iniciais:. Dataframe.info()

Column - Types
date - object
Usage_kWh - float64
Lagging_Current_Reactive.Power_kVarh - float64
Leading_Current_Reactive_Power_kVarh - float64
CO2(tCO2) - float64
Lagging_Current_Power_Factor - float64
Leading_Current_Power_Factor - float64
NSM - int64
WeekStatus - object

Dataframe.head()

01/01/2018 00:15	3.17	2.95	0.0	0.0	73.21	100.0	900	Weekday	Monday	Light_Load
01/01/2018 00:30	4.0	4.46	0.0	0.0	66.77	100.0	1800	Weekday	Monday	Light_Load
01/01/2018 00:45	3.24	3.28	0.0	0.0	70.28	100.0	2700	Weekday	Monday	Light_Load
01/01/2018 01:00	3.31	3.56	0.0	0.0	68.09	100.0	3600	Weekday	Monday	Light_Load
01/01/2018 01:15	3.82	4.5	0.0	0.0	64.72	100.0	4500	Weekday	Monday	Light_Load

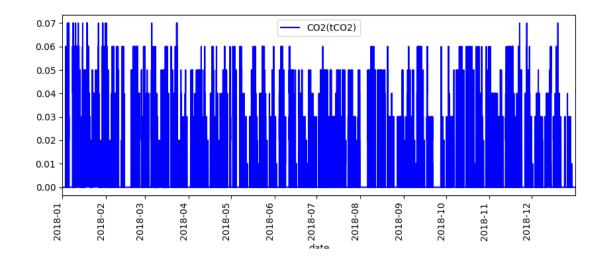
Index

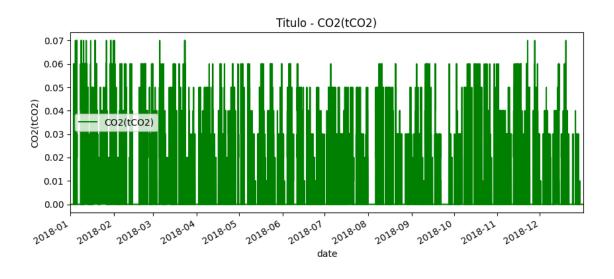
date - datetime64[ns]

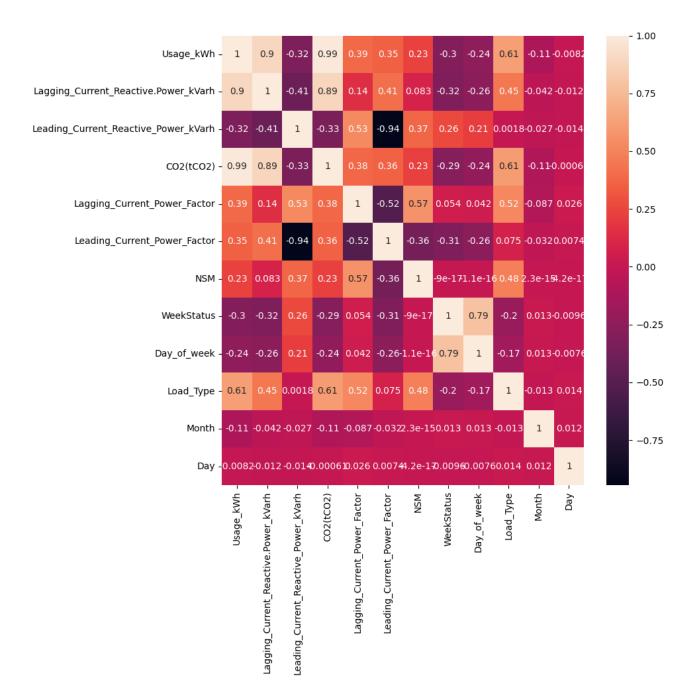
Day_of_week - object Load_Type - object

Column - Types
Usage_kWh - float64
Lagging_Current_Reactive.Power_kVarh - float64
Leading_Current_Reactive_Power_kVarh - float64
CO2(tCO2) - float64
Lagging_Current_Power_Factor - float64
Leading_Current_Power_Factor - float64
NSM - int64
WeekStatus - int64
Day_of_week - int64
Load_Type - int64
Month - int64
Day - int64

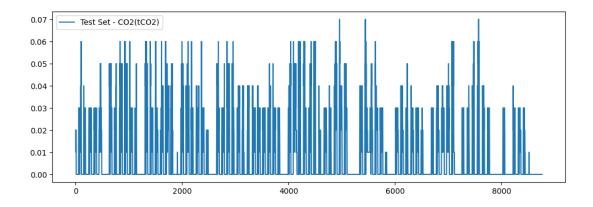
Dados após tratamento:.



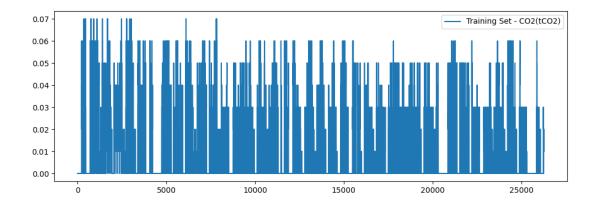


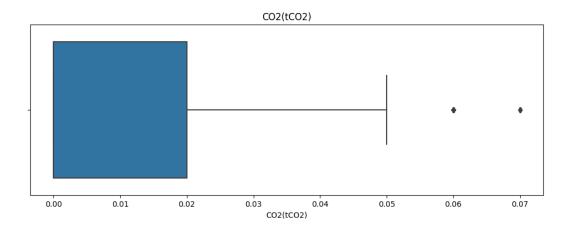


Usage_kWh -	1.000	0.896	-0.325	0.988	0.386	0.354	0.235	-0.295	-0.241	0.615	-0.114	-0.008	1.00	
Lagging_Current_Reactive.Power_kVarh -	0.896	1.000	-0.405	0.887	0.145	0.408	0.083	-0.320	-0.256	0.452	-0.042	-0.012	- 0.75	
Leading_Current_Reactive_Power_kVarh -	-0.325	-0.405	1.000	-0.333	0.527	-0.944	0.372	0.260	0.213	0.002	-0.027	-0.014	0.50	
CO2(tCO2) -	0.988	0.887	-0.333	1.000	0.380	0.360	0.232	-0.290	-0.235	0.611	-0.108	-0.001	- 0.50	
Lagging_Current_Power_Factor -	0.386	0.145	0.527	0.380	1.000	-0.520	0.565	0.054	0.042	0.519	-0.087	0.026	- 0.25	
Leading_Current_Power_Factor -	0.354	0.408	-0.944	0.360	-0.520	1.000	-0.361	-0.315	-0.258	0.075	-0.032	0.007		
NSM -	0.235	0.083	0.372	0.232	0.565	-0.361	1.000	-0.000	-0.000	0.483	0.000	-0.000	- 0.00	
WeekStatus -	-0.295	-0.320	0.260	-0.290	0.054	-0.315	-0.000	1.000	0.790	-0.200	0.013	-0.010	0.25	
Day_of_week -	-0.241	-0.256	0.213	-0.235	0.042	-0.258	-0.000	0.790	1.000	-0.169	0.013	-0.008		
Load_Type -	0.615	0.452	0.002	0.611	0.519	0.075	0.483	-0.200	-0.169	1.000	-0.013	0.014	0.50	
Month -	-0.114	-0.042	-0.027	-0.108	-0.087	-0.032	0.000	0.013	0.013	-0.013	1.000	0.012	0.75	
Day -	-0.008	-0.012	-0.014	-0.001	0.026	0.007	-0.000	-0.010	-0.008	0.014	0.012	1.000		
	Usage_kWh -	Lagging_Current_Reactive.Power_KVarh -	Leading_Current_Reactive_Power_KVarh -	CO2(tCO2) -	Lagging_Current_Power_Factor -	Leading_Current_Power_Factor -	- WSN	WeekStatus -	Day_of_week -	Load_Type -	Month -	- Day -		

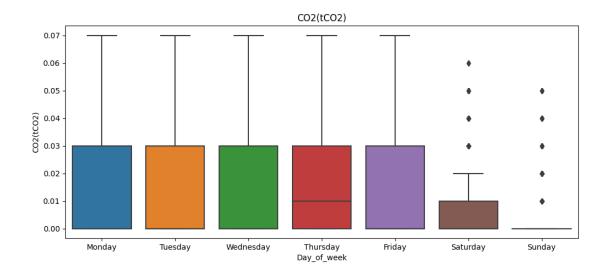


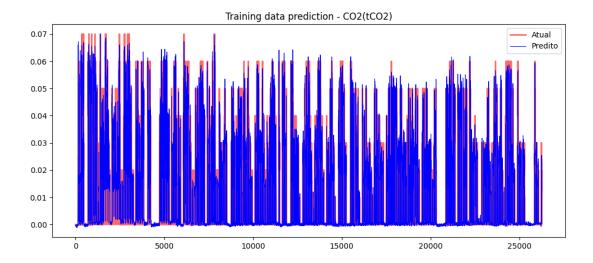
CO2(tCO2)





CO2(tCO2)





CO2(tCO2)

