This is the file that will be used in the prediction.

For every 5 minutes we have the total consumed.

this is a previous full file. Previous because i discovery a gap of information between 06/08/2023 20:30 to 06/08/2023 23:05 and 16/8/23 22:35 to 7/8/23 13:15.

I can fix this error only tomorrow. But you can start to work with is file

Notice that from time 23:15 until 03:55 we have 0 consumption.

Why? Because in this interval we don´t have consumption. Always!! It´s a rule

You should use XGBoost as a strategy to try to achieve the optimal prediction, since we always have a large window with data always = zeros, which does not mean absence of information as I explained, it means that we have no consumption in this period. It's a rule.

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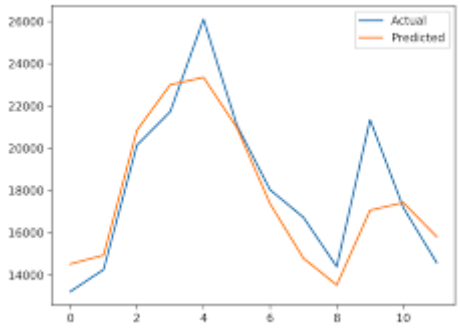
I suggest you split this file into two parts. Until 17-09-2023 and use this data for training, validation and testing. In the other part we will have consumption information for the 18th, 19th and 20/09/2023

Then you will make the projection for the next 3 days, following the projection pattern for every 5 minutes.

You must also show the accuracy of the model using this training, validation and testing database. You can include graphs such as trends, seasonality, etc. throughout the notebook.

In the end, I would like to validate what you projected for the 18th, 19th and 20/09/2023 with the real consumption values that are present in file 2 and show a graph similar to these.



After this part, you can also repeat the sugar calculations that you have already used previously in this final part of the notebook where we will validate the 3-day projection with the real data.

It is interesting to make the projection flexible. A variable "days_forecast" with the default value equal to 3

If I want to reduce or increase the projection, just change this parameter.