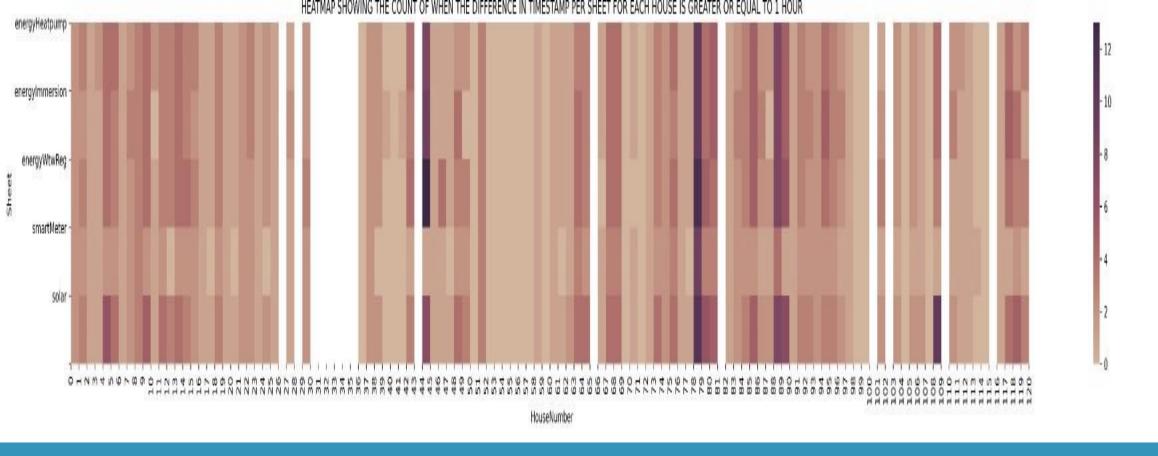


### Last week

#### Tasks:

- Heatmap
- Data train, test split
- We improved our SVR model
- We improved our MVLR model



### Heatmap

Heatmap showing the count of when the difference in timestamp per sheet for each house is greater or equal to 1 hour

The best houses for Solar energy production: [37,40,41,42,51,53,54,55,56,57,58,60,70,72,99,10 0,105,108,114,115]

#### Total set

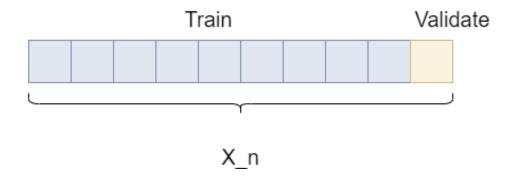


#### Test set

x_5 x_10 x_15	x_20 x_25	x_30 x_35
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#### Training + Validation Set

	x_3	x_4	x_6		x_32	x_33	x_34	x_3
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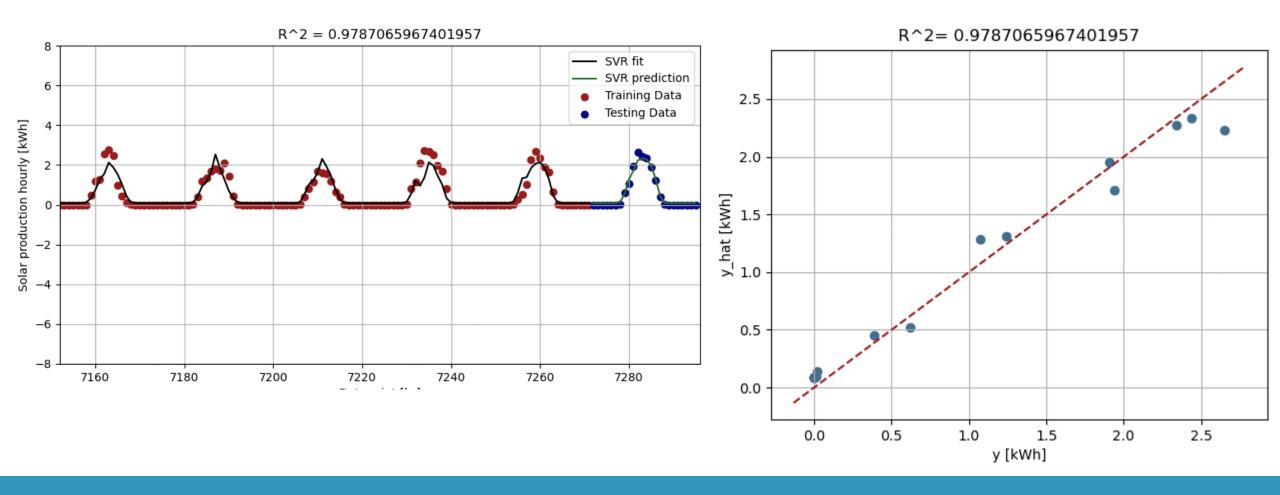
# Data train, test split

First method



# Data train, test split

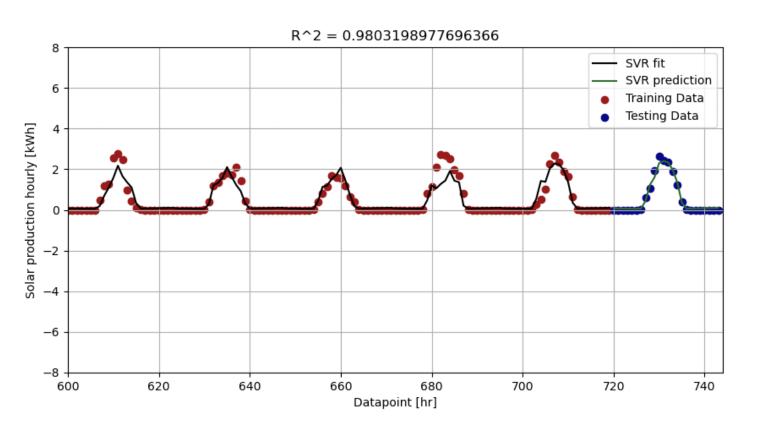
Classic model

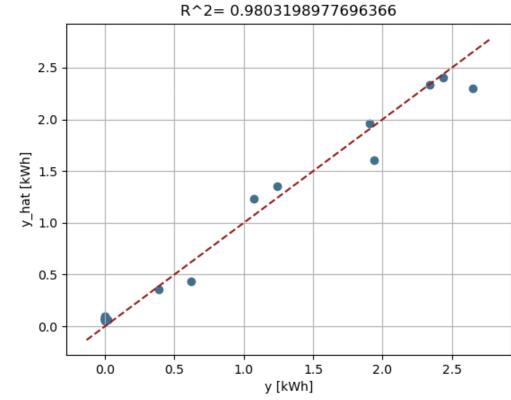


# SVR – 10 months

#### Added:

-Irradiance & solar production data 1, 2 and 3 days in the past (24hr 48hr, 72hr) -hour of the day (0, 1, 2 ... 23)

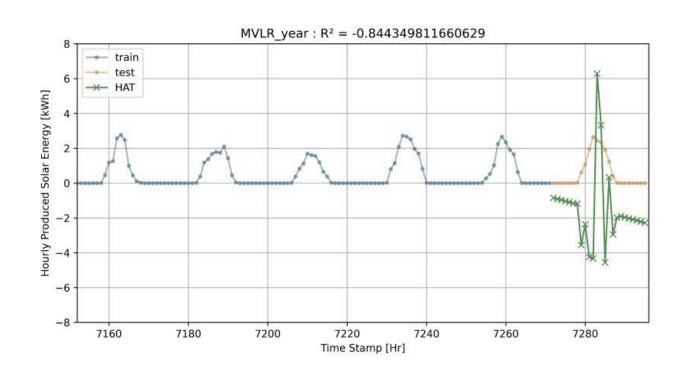


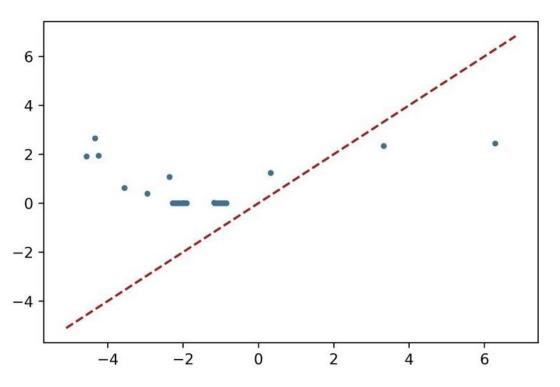


# SVR – 1 month

#### Added:

-Irradiance & solar production data 1 , 2 and 3 days in the past (24hr 48hr, 72hr) -hour of the day (0, 1, 2 ... 23)

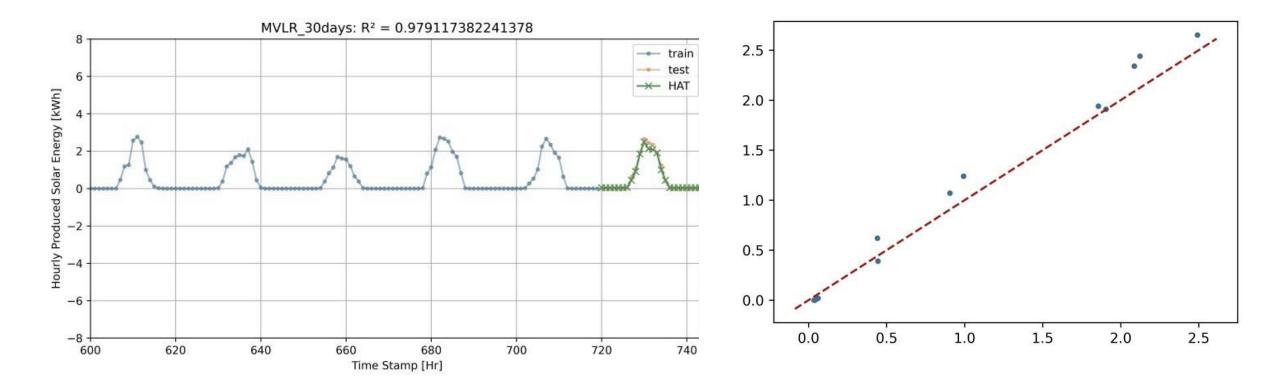




### MVLR – 10 months

#### Added:

-Irradiance & solar production data 1, 2 and 3 days in the past (24hr 48hr, 72hr) -hour of the day (0, 1, 2 ... 23)



### MVLR – 1 month

#### Added:

-Irradiance & solar production data 1, 2 and 3 days in the past (24hr 48hr, 72hr) -hour of the day (0, 1, 2 ... 23)

### Next week

- Find a way to filter the outliers properly out of the data for the MVLR, to improve performance.
- Let the models run on the test dataset
- Make 24 versions of each model that predicts every hour seperately (using a pipeline construction e.g.)
- 4. Acquire more knowledge concerning Artificial Neural Networks (by doing the Datacamp course Introduction to Deep Learning with Pytorch), and perhaps make a start with our very own LSTM!

Remarks, Suggestions, Questions

