# MM2 _Xarxa_walkforard_normalitzat_multivariate2_MULTISTEP30_tempm walkforwardaugment

December 21, 2019

# 1 Xarxa neuronal

```python
In [2]: import pandas as pd
        import numpy as np
        from pandas import datetime
        from matplotlib import pyplot as plt

        import keras
        from keras.models import Sequential
        from keras.layers import Dense
        from keras.layers import LSTM

        from keras.optimizers import SGD
        from sklearn.model_selection import StratifiedKFold
        from scipy.stats import uniform as sp_rand
        from scipy.stats import randint
        from time import time
        from sklearn import preprocessing
```

Using TensorFlow backend.

## 1.1 Consum diari total multivariate multi-step

```python
In [3]: daily=pd.read_csv('C:/Users/Laura/Desktop/Smart meters London/workspace R/Dades netes/I
        daily.head(5)
```

```
Out[3]:         date  apparentTemperatureMax  apparentTemperatureMin  sunsetTimeHour  \
        0  2014-02-08                    5.67                    2.19              17
        1  2013-12-24                   11.93                    2.68              15
        2  2012-11-01                   11.46                    0.85              16
        3  2014-02-05                    5.86                    1.03              16
        4  2012-04-17                   10.01                    2.76              19
```

```
     weekday  season  cloudCover  humidity  visibility  month  dewPoint  \
0          6  winter        0.47      0.77       11.20      2      3.99
1          2  winter        0.40      0.81       10.86     12      5.42
2          4  autumn        0.44      0.85       12.54     11      5.06
3          3  winter        0.73      0.77       10.91      2      4.06
4          2  spring        0.60      0.87       11.86      4      5.74


     pressure   energy_sum
0      979.25    11.569300
1      979.52    11.981672
2      979.63    10.781689
3      982.20    11.415105
4      982.22    10.617443
```

In [4]: #Ens quedem amb date i energy_sum, ordenem valors per data i resetejem index
        daily_dia=daily[['date','energy_sum','apparentTemperatureMax','apparentTemperatureMin'
        daily_dia.head(5)

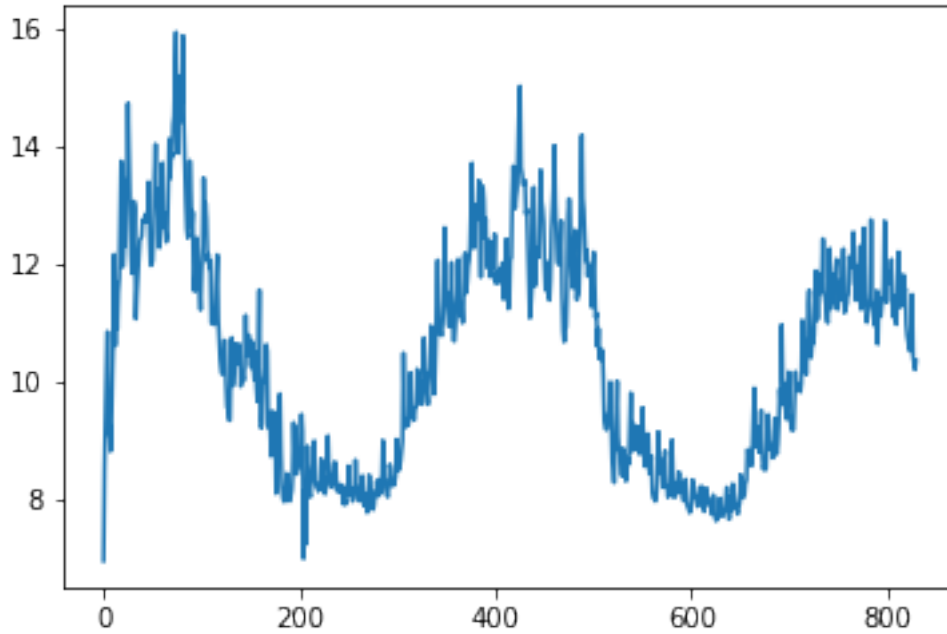Out[4]:    index         date   energy_sum  apparentTemperatureMax  \
        0    735   2011-11-23     6.952692                   10.36
        1    736   2011-11-24     8.536480                   12.93
        2    682   2011-11-25     9.499781                   13.03
        3    713   2011-11-26    10.267707                   12.96
        4    609   2011-11-27    10.850805                   13.54


           apparentTemperatureMin  humidity  weekday
        0                    2.18      0.93        3
        1                    7.01      0.89        4
        2                    4.84      0.79        5
        3                    4.69      0.81        6
        4                    2.94      0.72        7

In [18]: plt.plot(daily_dia.energy_sum )

Out[18]: [<matplotlib.lines.Line2D at 0x1d48d92d710>]
```

2

```
In [5]: daily_dia['y+1']=daily_dia['energy_sum'].shift(-1)
        daily_dia['y+2']=daily_dia['energy_sum'].shift(-2)
        daily_dia['y+3']=daily_dia['energy_sum'].shift(-3)
        daily_dia['y+4']=daily_dia['energy_sum'].shift(-4)
        daily_dia['y+5']=daily_dia['energy_sum'].shift(-5)
        daily_dia['y+6']=daily_dia['energy_sum'].shift(-6)
        daily_dia['y+7']=daily_dia['energy_sum'].shift(-7)
        daily_dia['y+8']=daily_dia['energy_sum'].shift(-8)
        daily_dia['y+9']=daily_dia['energy_sum'].shift(-9)
        daily_dia['y+10']=daily_dia['energy_sum'].shift(-10)
        daily_dia['y+11']=daily_dia['energy_sum'].shift(-11)
        daily_dia['y+12']=daily_dia['energy_sum'].shift(-12)
        daily_dia['y+13']=daily_dia['energy_sum'].shift(-13)
        daily_dia['y+14']=daily_dia['energy_sum'].shift(-14)
        daily_dia['y+15']=daily_dia['energy_sum'].shift(-15)
        daily_dia['y+16']=daily_dia['energy_sum'].shift(-16)
        daily_dia['y+17']=daily_dia['energy_sum'].shift(-17)
        daily_dia['y+18']=daily_dia['energy_sum'].shift(-18)
        daily_dia['y+19']=daily_dia['energy_sum'].shift(-19)
        daily_dia['y+20']=daily_dia['energy_sum'].shift(-20)
        daily_dia['y+21']=daily_dia['energy_sum'].shift(-21)
        daily_dia['y+22']=daily_dia['energy_sum'].shift(-22)
        daily_dia['y+23']=daily_dia['energy_sum'].shift(-23)
        daily_dia['y+24']=daily_dia['energy_sum'].shift(-24)
        daily_dia['y+25']=daily_dia['energy_sum'].shift(-25)
        daily_dia['y+26']=daily_dia['energy_sum'].shift(-26)
```

```python
daily_dia['y+27']=daily_dia['energy_sum'].shift(-27)
daily_dia['y+28']=daily_dia['energy_sum'].shift(-28)
daily_dia['y+29']=daily_dia['energy_sum'].shift(-29)
daily_dia['y+30']=daily_dia['energy_sum'].shift(-30)



daily_dia['t-1']=daily_dia['energy_sum'].shift(1)
daily_dia['t-2']=daily_dia['energy_sum'].shift(2)
daily_dia['t-3']=daily_dia['energy_sum'].shift(3)
daily_dia['t-4']=daily_dia['energy_sum'].shift(4)
daily_dia['t-5']=daily_dia['energy_sum'].shift(5)
daily_dia['t-6']=daily_dia['energy_sum'].shift(6)
daily_dia['t-7']=daily_dia['energy_sum'].shift(7)
daily_dia['t-8']=daily_dia['energy_sum'].shift(8)
daily_dia['t-9']=daily_dia['energy_sum'].shift(9)
daily_dia['t-10']=daily_dia['energy_sum'].shift(10)
daily_dia['t-11']=daily_dia['energy_sum'].shift(11)
daily_dia['t-12']=daily_dia['energy_sum'].shift(12)
daily_dia['t-13']=daily_dia['energy_sum'].shift(13)
daily_dia['t-14']=daily_dia['energy_sum'].shift(14)

daily_dia['temp(t-1)']=daily_dia['apparentTemperatureMax'].shift(1)
daily_dia['temp(t-2)']=daily_dia['apparentTemperatureMax'].shift(2)
daily_dia['temp(t-3)']=daily_dia['apparentTemperatureMax'].shift(3)
daily_dia['temp(t-4)']=daily_dia['apparentTemperatureMax'].shift(4)
daily_dia['temp(t-5)']=daily_dia['apparentTemperatureMax'].shift(5)
daily_dia['temp(t-6)']=daily_dia['apparentTemperatureMax'].shift(6)
daily_dia['temp(t-7)']=daily_dia['apparentTemperatureMax'].shift(7)
daily_dia['temp(t-8)']=daily_dia['apparentTemperatureMax'].shift(8)
daily_dia['temp(t-9)']=daily_dia['apparentTemperatureMax'].shift(9)
daily_dia['temp(t-10)']=daily_dia['apparentTemperatureMax'].shift(10)
daily_dia['temp(t-11)']=daily_dia['apparentTemperatureMax'].shift(11)
daily_dia['temp(t-12)']=daily_dia['apparentTemperatureMax'].shift(12)
daily_dia['temp(t-13)']=daily_dia['apparentTemperatureMax'].shift(13)
daily_dia['temp(t-14)']=daily_dia['apparentTemperatureMax'].shift(14)

daily_dia['tempmin(t-1)']=daily_dia['apparentTemperatureMin'].shift(1)
daily_dia['tempmin(t-2)']=daily_dia['apparentTemperatureMin'].shift(2)
daily_dia['tempmin(t-3)']=daily_dia['apparentTemperatureMin'].shift(3)
daily_dia['tempmin(t-4)']=daily_dia['apparentTemperatureMin'].shift(4)
daily_dia['tempmin(t-5)']=daily_dia['apparentTemperatureMin'].shift(5)
daily_dia['tempmin(t-6)']=daily_dia['apparentTemperatureMin'].shift(6)
daily_dia['tempmin(t-7)']=daily_dia['apparentTemperatureMin'].shift(7)
daily_dia['tempmin(t-8)']=daily_dia['apparentTemperatureMin'].shift(8)
daily_dia['tempmin(t-9)']=daily_dia['apparentTemperatureMin'].shift(9)
daily_dia['tempmin(t-10)']=daily_dia['apparentTemperatureMin'].shift(10)
daily_dia['tempmin(t-11)']=daily_dia['apparentTemperatureMin'].shift(11)
```

```python
daily_dia['tempmin(t-12)']=daily_dia['apparentTemperatureMin'].shift(12)
daily_dia['tempmin(t-13)']=daily_dia['apparentTemperatureMin'].shift(13)
daily_dia['tempmin(t-14)']=daily_dia['apparentTemperatureMin'].shift(14)

daily_dia['humidity(t-1)']=daily_dia['humidity'].shift(1)
daily_dia['humidity(t-2)']=daily_dia['humidity'].shift(2)
daily_dia['humidity(t-3)']=daily_dia['humidity'].shift(3)
daily_dia['humidity(t-4)']=daily_dia['humidity'].shift(4)
daily_dia['humidity(t-5)']=daily_dia['humidity'].shift(5)
daily_dia['humidity(t-6)']=daily_dia['humidity'].shift(6)
daily_dia['humidity(t-7)']=daily_dia['humidity'].shift(7)
daily_dia['humidity(t-8)']=daily_dia['humidity'].shift(8)
daily_dia['humidity(t-9)']=daily_dia['humidity'].shift(9)
daily_dia['humidity(t-10)']=daily_dia['humidity'].shift(10)
daily_dia['humidity(t-11)']=daily_dia['humidity'].shift(11)
daily_dia['humidity(t-12)']=daily_dia['humidity'].shift(12)
daily_dia['humidity(t-13)']=daily_dia['humidity'].shift(13)
daily_dia['humidity(t-14)']=daily_dia['humidity'].shift(14)

daily_dia['weekday(t-1)']=daily_dia['weekday'].shift(1)
daily_dia['weekday(t-2)']=daily_dia['weekday'].shift(2)
daily_dia['weekday(t-3)']=daily_dia['weekday'].shift(3)
daily_dia['weekday(t-4)']=daily_dia['weekday'].shift(4)
daily_dia['weekday(t-5)']=daily_dia['weekday'].shift(5)
daily_dia['weekday(t-6)']=daily_dia['weekday'].shift(6)
daily_dia['weekday(t-7)']=daily_dia['weekday'].shift(7)
daily_dia['weekday(t-8)']=daily_dia['weekday'].shift(8)
daily_dia['weekday(t-9)']=daily_dia['weekday'].shift(9)
daily_dia['weekday(t-10)']=daily_dia['weekday'].shift(10)
daily_dia['weekday(t-11)']=daily_dia['weekday'].shift(11)
daily_dia['weekday(t-12)']=daily_dia['weekday'].shift(12)
daily_dia['weekday(t-13)']=daily_dia['weekday'].shift(13)
daily_dia['weekday(t-14)']=daily_dia['weekday'].shift(14)


daily_dia
```

```
Out[5]:      index        date  energy_sum  apparentTemperatureMax  \
        0      735  2011-11-23    6.952692                   10.36
        1      736  2011-11-24    8.536480                   12.93
        2      682  2011-11-25    9.499781                   13.03
        3      713  2011-11-26   10.267707                   12.96
        4      609  2011-11-27   10.850805                   13.54
        5      641  2011-11-28    9.103382                   12.58
        6      265  2011-11-29    9.274873                   13.47
        7      571  2011-11-30    8.813513                   11.87
        8      199  2011-12-01    9.227707                   12.15
        9      338  2011-12-02   10.145910                    5.33
```

| | | | | |
|---|---|---|---|---|
| 10 | 131 | 2011-12-03 | 10.780273 | 11.42 |
| 11 | 100 | 2011-12-04 | 12.163127 | 6.66 |
| 12 | 176 | 2011-12-05 | 10.609714 | 3.13 |
| 13 | 203 | 2011-12-06 | 11.673417 | 3.77 |
| 14 | 240 | 2011-12-07 | 10.889362 | 5.14 |
| 15 | 299 | 2011-12-08 | 11.525150 | 12.89 |
| 16 | 294 | 2011-12-09 | 11.759837 | 3.99 |
| 17 | 455 | 2011-12-10 | 12.633801 | 3.14 |
| 18 | 215 | 2011-12-11 | 13.749174 | 5.72 |
| 19 | 115 | 2011-12-12 | 11.951958 | 5.94 |
| 20 | 22 | 2011-12-13 | 11.957446 | 12.08 |
| 21 | 45 | 2011-12-14 | 12.392776 | 2.88 |
| 22 | 59 | 2011-12-15 | 12.307079 | 4.38 |
| 23 | 11 | 2011-12-16 | 13.376080 | 0.99 |
| 24 | 228 | 2011-12-17 | 13.511968 | 1.72 |
| 25 | 478 | 2011-12-18 | 14.732271 | 1.98 |
| 26 | 412 | 2011-12-19 | 13.774471 | 4.02 |
| 27 | 433 | 2011-12-20 | 12.709106 | 4.98 |
| 28 | 524 | 2011-12-21 | 12.148570 | 12.14 |
| 29 | 689 | 2011-12-22 | 11.839403 | 12.14 |
| .. | ... | ... | ... | ... |
| 800 | 41 | 2014-01-29 | 11.800777 | 2.53 |
| 801 | 105 | 2014-01-30 | 11.685169 | 5.86 |
| 802 | 80 | 2014-01-31 | 11.857957 | 5.27 |
| 803 | 21 | 2014-02-01 | 11.710582 | 6.86 |
| 804 | 163 | 2014-02-02 | 12.078164 | 6.48 |
| 805 | 135 | 2014-02-03 | 11.280011 | 4.59 |
| 806 | 60 | 2014-02-04 | 11.095584 | 5.63 |
| 807 | 3 | 2014-02-05 | 11.415105 | 5.86 |
| 808 | 18 | 2014-02-06 | 11.445403 | 7.34 |
| 809 | 14 | 2014-02-07 | 10.972318 | 8.44 |
| 810 | 0 | 2014-02-08 | 11.569300 | 5.67 |
| 811 | 7 | 2014-02-09 | 12.202967 | 3.91 |
| 812 | 35 | 2014-02-10 | 11.264175 | 7.07 |
| 813 | 57 | 2014-02-11 | 11.452649 | 4.06 |
| 814 | 44 | 2014-02-12 | 11.679099 | 4.73 |
| 815 | 33 | 2014-02-13 | 11.285737 | 3.42 |
| 816 | 23 | 2014-02-14 | 11.816914 | 12.02 |
| 817 | 13 | 2014-02-15 | 11.490470 | 5.79 |
| 818 | 187 | 2014-02-16 | 11.582159 | 7.88 |
| 819 | 218 | 2014-02-17 | 10.979566 | 10.67 |
| 820 | 235 | 2014-02-18 | 10.781898 | 10.13 |
| 821 | 322 | 2014-02-19 | 10.674624 | 10.13 |
| 822 | 101 | 2014-02-20 | 10.573835 | 12.50 |
| 823 | 129 | 2014-02-21 | 10.518126 | 10.15 |
| 824 | 248 | 2014-02-22 | 10.776242 | 11.63 |
| 825 | 285 | 2014-02-23 | 11.480411 | 11.94 |
| 826 | 158 | 2014-02-24 | 10.411403 | 14.23 |

```
827      95  2014-02-25    10.294997                        11.43
828     360  2014-02-26    10.202945                        11.29
829     197  2014-02-27    10.356350                        10.31


     apparentTemperatureMin  humidity  weekday        y+1        y+2  \
0                      2.18      0.93        3   8.536480   9.499781
1                      7.01      0.89        4   9.499781  10.267707
2                      4.84      0.79        5  10.267707  10.850805
3                      4.69      0.81        6  10.850805   9.103382
4                      2.94      0.72        7   9.103382   9.274873
5                      1.31      0.86        1   9.274873   8.813513
6                      3.39      0.82        2   8.813513   9.227707
7                      3.34      0.78        3   9.227707  10.145910
8                      5.29      0.82        4  10.145910  10.780273
9                      0.46      0.87        5  10.780273  12.163127
10                     4.71      0.79        6  12.163127  10.609714
11                     1.03      0.82        7  10.609714  11.673417
12                    -1.69      0.77        1  11.673417  10.889362
13                    -1.61      0.83        2  10.889362  11.525150
14                     0.94      0.68        3  11.525150  11.759837
15                     0.63      0.81        4  11.759837  12.633801
16                    -1.42      0.71        5  12.633801  13.749174
17                    -3.42      0.81        6  13.749174  11.951958
18                     0.11      0.88        7  11.951958  11.957446
19                    -0.64      0.84        1  11.957446  12.392776
20                     0.22      0.75        2  12.392776  12.307079
21                     0.78      0.79        3  12.307079  13.376080
22                     1.07      0.77        4  13.376080  13.511968
23                    -2.65      0.88        5  13.511968  14.732271
24                    -3.56      0.86        6  14.732271  13.774471
25                    -4.12      0.84        7  13.774471  12.709106
26                    -3.67      0.94        1  12.709106  12.148570
27                     1.68      0.81        2  12.148570  11.839403
28                     3.84      0.94        3  11.839403  12.254989
29                     5.37      0.87        4  12.254989  13.065317
..                      ...       ...      ...        ...        ...
800                    0.18      0.90        3  11.685169  11.857957
801                    0.61      0.91        4  11.857957  11.710582
802                    0.29      0.91        5  11.710582  12.078164
803                    1.10      0.76        6  12.078164  11.280011
804                    3.21      0.72        7  11.280011  11.095584
805                    1.96      0.79        1  11.095584  11.415105
806                    1.12      0.75        2  11.415105  11.445403
807                    1.03      0.77        3  11.445403  10.972318
808                    1.96      0.82        4  10.972318  11.569300
809                   -0.86      0.79        5  11.569300  12.202967
810                    2.19      0.77        6  12.202967  11.264175
811                    1.38      0.66        7  11.264175  11.452649
```

|     |       |      |   |           |           |
| --- | ----- | ---- | - | --------- | --------- |
| 812 | 0.89  | 0.84 | 1 | 11.452649 | 11.679099 |
| 813 | -0.57 | 0.76 | 2 | 11.679099 | 11.285737 |
| 814 | -1.20 | 0.75 | 3 | 11.285737 | 11.816914 |
| 815 | 0.05  | 0.68 | 4 | 11.816914 | 11.490470 |
| 816 | 0.45  | 0.81 | 5 | 11.490470 | 11.582159 |
| 817 | 1.77  | 0.69 | 6 | 11.582159 | 10.979566 |
| 818 | -1.03 | 0.76 | 7 | 10.979566 | 10.781898 |
| 819 | 2.84  | 0.83 | 1 | 10.781898 | 10.674624 |
| 820 | 3.83  | 0.87 | 2 | 10.674624 | 10.573835 |
| 821 | 2.65  | 0.87 | 3 | 10.573835 | 10.518126 |
| 822 | 3.95  | 0.84 | 4 | 10.518126 | 10.776242 |
| 823 | 0.19  | 0.72 | 5 | 10.776242 | 11.480411 |
| 824 | 1.59  | 0.71 | 6 | 11.480411 | 10.411403 |
| 825 | 5.53  | 0.76 | 7 | 10.411403 | 10.294997 |
| 826 | 5.52  | 0.74 | 1 | 10.294997 | 10.202945 |
| 827 | 3.89  | 0.78 | 2 | 10.202945 | 10.356350 |
| 828 | 1.67  | 0.73 | 3 | 10.356350 | NaN       |
| 829 | 1.41  | 0.74 | 4 | NaN       | NaN       |

|    | y+3       | ... | weekday(t-5) | weekday(t-6) | weekday(t-7) | weekday(t-8) \ |
| -- | --------- | --- | ------------ | ------------ | ------------ | -------------- |
| 0  | 10.267707 | ... | NaN          | NaN          | NaN          | NaN            |
| 1  | 10.850805 | ... | NaN          | NaN          | NaN          | NaN            |
| 2  | 9.103382  | ... | NaN          | NaN          | NaN          | NaN            |
| 3  | 9.274873  | ... | NaN          | NaN          | NaN          | NaN            |
| 4  | 8.813513  | ... | NaN          | NaN          | NaN          | NaN            |
| 5  | 9.227707  | ... | 3.0          | NaN          | NaN          | NaN            |
| 6  | 10.145910 | ... | 4.0          | 3.0          | NaN          | NaN            |
| 7  | 10.780273 | ... | 5.0          | 4.0          | 3.0          | NaN            |
| 8  | 12.163127 | ... | 6.0          | 5.0          | 4.0          | 3.0            |
| 9  | 10.609714 | ... | 7.0          | 6.0          | 5.0          | 4.0            |
| 10 | 11.673417 | ... | 1.0          | 7.0          | 6.0          | 5.0            |
| 11 | 10.889362 | ... | 2.0          | 1.0          | 7.0          | 6.0            |
| 12 | 11.525150 | ... | 3.0          | 2.0          | 1.0          | 7.0            |
| 13 | 11.759837 | ... | 4.0          | 3.0          | 2.0          | 1.0            |
| 14 | 12.633801 | ... | 5.0          | 4.0          | 3.0          | 2.0            |
| 15 | 13.749174 | ... | 6.0          | 5.0          | 4.0          | 3.0            |
| 16 | 11.951958 | ... | 7.0          | 6.0          | 5.0          | 4.0            |
| 17 | 11.957446 | ... | 1.0          | 7.0          | 6.0          | 5.0            |
| 18 | 12.392776 | ... | 2.0          | 1.0          | 7.0          | 6.0            |
| 19 | 12.307079 | ... | 3.0          | 2.0          | 1.0          | 7.0            |
| 20 | 13.376080 | ... | 4.0          | 3.0          | 2.0          | 1.0            |
| 21 | 13.511968 | ... | 5.0          | 4.0          | 3.0          | 2.0            |
| 22 | 14.732271 | ... | 6.0          | 5.0          | 4.0          | 3.0            |
| 23 | 13.774471 | ... | 7.0          | 6.0          | 5.0          | 4.0            |
| 24 | 12.709106 | ... | 1.0          | 7.0          | 6.0          | 5.0            |
| 25 | 12.148570 | ... | 2.0          | 1.0          | 7.0          | 6.0            |
| 26 | 11.839403 | ... | 3.0          | 2.0          | 1.0          | 7.0            |
| 27 | 12.254989 | ... | 4.0          | 3.0          | 2.0          | 1.0            |

|     |           |     |     |     |     |     |
| --- | --------- | --- | --- | --- | --- | --- |
| 28  | 13.065317 | ... | 5.0 | 4.0 | 3.0 | 2.0 |
| 29  | 12.949429 | ... | 6.0 | 5.0 | 4.0 | 3.0 |
| ..  | ...       | ... | ... | ... | ... | ... |
| 800 | 11.710582 | ... | 5.0 | 4.0 | 3.0 | 2.0 |
| 801 | 12.078164 | ... | 6.0 | 5.0 | 4.0 | 3.0 |
| 802 | 11.280011 | ... | 7.0 | 6.0 | 5.0 | 4.0 |
| 803 | 11.095584 | ... | 1.0 | 7.0 | 6.0 | 5.0 |
| 804 | 11.415105 | ... | 2.0 | 1.0 | 7.0 | 6.0 |
| 805 | 11.445403 | ... | 3.0 | 2.0 | 1.0 | 7.0 |
| 806 | 10.972318 | ... | 4.0 | 3.0 | 2.0 | 1.0 |
| 807 | 11.569300 | ... | 5.0 | 4.0 | 3.0 | 2.0 |
| 808 | 12.202967 | ... | 6.0 | 5.0 | 4.0 | 3.0 |
| 809 | 11.264175 | ... | 7.0 | 6.0 | 5.0 | 4.0 |
| 810 | 11.452649 | ... | 1.0 | 7.0 | 6.0 | 5.0 |
| 811 | 11.679099 | ... | 2.0 | 1.0 | 7.0 | 6.0 |
| 812 | 11.285737 | ... | 3.0 | 2.0 | 1.0 | 7.0 |
| 813 | 11.816914 | ... | 4.0 | 3.0 | 2.0 | 1.0 |
| 814 | 11.490470 | ... | 5.0 | 4.0 | 3.0 | 2.0 |
| 815 | 11.582159 | ... | 6.0 | 5.0 | 4.0 | 3.0 |
| 816 | 10.979566 | ... | 7.0 | 6.0 | 5.0 | 4.0 |
| 817 | 10.781898 | ... | 1.0 | 7.0 | 6.0 | 5.0 |
| 818 | 10.674624 | ... | 2.0 | 1.0 | 7.0 | 6.0 |
| 819 | 10.573835 | ... | 3.0 | 2.0 | 1.0 | 7.0 |
| 820 | 10.518126 | ... | 4.0 | 3.0 | 2.0 | 1.0 |
| 821 | 10.776242 | ... | 5.0 | 4.0 | 3.0 | 2.0 |
| 822 | 11.480411 | ... | 6.0 | 5.0 | 4.0 | 3.0 |
| 823 | 10.411403 | ... | 7.0 | 6.0 | 5.0 | 4.0 |
| 824 | 10.294997 | ... | 1.0 | 7.0 | 6.0 | 5.0 |
| 825 | 10.202945 | ... | 2.0 | 1.0 | 7.0 | 6.0 |
| 826 | 10.356350 | ... | 3.0 | 2.0 | 1.0 | 7.0 |
| 827 | NaN       | ... | 4.0 | 3.0 | 2.0 | 1.0 |
| 828 | NaN       | ... | 5.0 | 4.0 | 3.0 | 2.0 |
| 829 | NaN       | ... | 6.0 | 5.0 | 4.0 | 3.0 |

|    | weekday(t-9) | weekday(t-10) | weekday(t-11) | weekday(t-12) | weekday(t-13) \ |
| -- | ------------ | ------------- | ------------- | ------------- | --------------- |
| 0  | NaN          | NaN           | NaN           | NaN           | NaN             |
| 1  | NaN          | NaN           | NaN           | NaN           | NaN             |
| 2  | NaN          | NaN           | NaN           | NaN           | NaN             |
| 3  | NaN          | NaN           | NaN           | NaN           | NaN             |
| 4  | NaN          | NaN           | NaN           | NaN           | NaN             |
| 5  | NaN          | NaN           | NaN           | NaN           | NaN             |
| 6  | NaN          | NaN           | NaN           | NaN           | NaN             |
| 7  | NaN          | NaN           | NaN           | NaN           | NaN             |
| 8  | NaN          | NaN           | NaN           | NaN           | NaN             |
| 9  | 3.0          | NaN           | NaN           | NaN           | NaN             |
| 10 | 4.0          | 3.0           | NaN           | NaN           | NaN             |
| 11 | 5.0          | 4.0           | 3.0           | NaN           | NaN             |
| 12 | 6.0          | 5.0           | 4.0           | 3.0           | NaN             |

| | | | | |
|---|---|---|---|---|
| 13 | 7.0 | 6.0 | 5.0 | 4.0 | 3.0 |
| 14 | 1.0 | 7.0 | 6.0 | 5.0 | 4.0 |
| 15 | 2.0 | 1.0 | 7.0 | 6.0 | 5.0 |
| 16 | 3.0 | 2.0 | 1.0 | 7.0 | 6.0 |
| 17 | 4.0 | 3.0 | 2.0 | 1.0 | 7.0 |
| 18 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 |
| 19 | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 |
| 20 | 7.0 | 6.0 | 5.0 | 4.0 | 3.0 |
| 21 | 1.0 | 7.0 | 6.0 | 5.0 | 4.0 |
| 22 | 2.0 | 1.0 | 7.0 | 6.0 | 5.0 |
| 23 | 3.0 | 2.0 | 1.0 | 7.0 | 6.0 |
| 24 | 4.0 | 3.0 | 2.0 | 1.0 | 7.0 |
| 25 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 |
| 26 | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 |
| 27 | 7.0 | 6.0 | 5.0 | 4.0 | 3.0 |
| 28 | 1.0 | 7.0 | 6.0 | 5.0 | 4.0 |
| 29 | 2.0 | 1.0 | 7.0 | 6.0 | 5.0 |
| .. | ... | ... | ... | ... | ... |
| 800 | 1.0 | 7.0 | 6.0 | 5.0 | 4.0 |
| 801 | 2.0 | 1.0 | 7.0 | 6.0 | 5.0 |
| 802 | 3.0 | 2.0 | 1.0 | 7.0 | 6.0 |
| 803 | 4.0 | 3.0 | 2.0 | 1.0 | 7.0 |
| 804 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 |
| 805 | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 |
| 806 | 7.0 | 6.0 | 5.0 | 4.0 | 3.0 |
| 807 | 1.0 | 7.0 | 6.0 | 5.0 | 4.0 |
| 808 | 2.0 | 1.0 | 7.0 | 6.0 | 5.0 |
| 809 | 3.0 | 2.0 | 1.0 | 7.0 | 6.0 |
| 810 | 4.0 | 3.0 | 2.0 | 1.0 | 7.0 |
| 811 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 |
| 812 | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 |
| 813 | 7.0 | 6.0 | 5.0 | 4.0 | 3.0 |
| 814 | 1.0 | 7.0 | 6.0 | 5.0 | 4.0 |
| 815 | 2.0 | 1.0 | 7.0 | 6.0 | 5.0 |
| 816 | 3.0 | 2.0 | 1.0 | 7.0 | 6.0 |
| 817 | 4.0 | 3.0 | 2.0 | 1.0 | 7.0 |
| 818 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 |
| 819 | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 |
| 820 | 7.0 | 6.0 | 5.0 | 4.0 | 3.0 |
| 821 | 1.0 | 7.0 | 6.0 | 5.0 | 4.0 |
| 822 | 2.0 | 1.0 | 7.0 | 6.0 | 5.0 |
| 823 | 3.0 | 2.0 | 1.0 | 7.0 | 6.0 |
| 824 | 4.0 | 3.0 | 2.0 | 1.0 | 7.0 |
| 825 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 |
| 826 | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 |
| 827 | 7.0 | 6.0 | 5.0 | 4.0 | 3.0 |
| 828 | 1.0 | 7.0 | 6.0 | 5.0 | 4.0 |
| 829 | 2.0 | 1.0 | 7.0 | 6.0 | 5.0 |

|     | weekday(t-14) |
| --- | --- |
| 0   | NaN |
| 1   | NaN |
| 2   | NaN |
| 3   | NaN |
| 4   | NaN |
| 5   | NaN |
| 6   | NaN |
| 7   | NaN |
| 8   | NaN |
| 9   | NaN |
| 10  | NaN |
| 11  | NaN |
| 12  | NaN |
| 13  | NaN |
| 14  | 3.0 |
| 15  | 4.0 |
| 16  | 5.0 |
| 17  | 6.0 |
| 18  | 7.0 |
| 19  | 1.0 |
| 20  | 2.0 |
| 21  | 3.0 |
| 22  | 4.0 |
| 23  | 5.0 |
| 24  | 6.0 |
| 25  | 7.0 |
| 26  | 1.0 |
| 27  | 2.0 |
| 28  | 3.0 |
| 29  | 4.0 |
| ..  | ... |
| 800 | 3.0 |
| 801 | 4.0 |
| 802 | 5.0 |
| 803 | 6.0 |
| 804 | 7.0 |
| 805 | 1.0 |
| 806 | 2.0 |
| 807 | 3.0 |
| 808 | 4.0 |
| 809 | 5.0 |
| 810 | 6.0 |
| 811 | 7.0 |
| 812 | 1.0 |
| 813 | 2.0 |
| 814 | 3.0 |

```
815             4.0
816             5.0
817             6.0
818             7.0
819             1.0
820             2.0
821             3.0
822             4.0
823             5.0
824             6.0
825             7.0
826             1.0
827             2.0
828             3.0
829             4.0

[830 rows x 107 columns]
```

In [6]: *#Ens quedem amb energies i temperatures*
        *#No agafem apparent temperature max ja que quan fem la predicció representa que no ho .*
        daily_dia=daily_dia.drop(['index','date','apparentTemperatureMax','apparentTemperatureM*
        daily_dia.head(5)

Out[6]:    energy_sum        y+1        y+2        y+3        y+4        y+5  \
        0    6.952692   8.536480   9.499781  10.267707  10.850805   9.103382
        1    8.536480   9.499781  10.267707  10.850805   9.103382   9.274873
        2    9.499781  10.267707  10.850805   9.103382   9.274873   8.813513
        3   10.267707  10.850805   9.103382   9.274873   8.813513   9.227707
        4   10.850805   9.103382   9.274873   8.813513   9.227707  10.145910


                 y+6        y+7        y+8        y+9  ...  weekday(t-5)  \
        0    9.274873   8.813513   9.227707  10.145910  ...           NaN
        1    8.813513   9.227707  10.145910  10.780273  ...           NaN
        2    9.227707  10.145910  10.780273  12.163127  ...           NaN
        3   10.145910  10.780273  12.163127  10.609714  ...           NaN
        4   10.780273  12.163127  10.609714  11.673417  ...           NaN


           weekday(t-6)  weekday(t-7)  weekday(t-8)  weekday(t-9)  weekday(t-10)  \
        0           NaN           NaN           NaN           NaN            NaN
        1           NaN           NaN           NaN           NaN            NaN
        2           NaN           NaN           NaN           NaN            NaN
        3           NaN           NaN           NaN           NaN            NaN
        4           NaN           NaN           NaN           NaN            NaN


           weekday(t-11)  weekday(t-12)  weekday(t-13)  weekday(t-14)
        0            NaN            NaN            NaN            NaN
        1            NaN            NaN            NaN            NaN
        2            NaN            NaN            NaN            NaN
```

```
         3          NaN          NaN          NaN          NaN
         4          NaN          NaN          NaN          NaN

         [5 rows x 101 columns]
```

In [7]: *#Eliminem les 14 primeres files ja que contenen NaN (valors buits)*

```
daily_dia=daily_dia.drop([0,1,2,3,4,5,6,7,8,9,10,11,12,13])
daily_dia.head(5)
```

Out[7]:
```
        energy_sum        y+1        y+2        y+3        y+4        y+5  \
14       10.889362  11.525150  11.759837  12.633801  13.749174  11.951958
15       11.525150  11.759837  12.633801  13.749174  11.951958  11.957446
16       11.759837  12.633801  13.749174  11.951958  11.957446  12.392776
17       12.633801  13.749174  11.951958  11.957446  12.392776  12.307079
18       13.749174  11.951958  11.957446  12.392776  12.307079  13.376080

               y+6        y+7        y+8        y+9  ...  weekday(t-5)  \
14       11.957446  12.392776  12.307079  13.376080  ...           5.0
15       12.392776  12.307079  13.376080  13.511968  ...           6.0
16       12.307079  13.376080  13.511968  14.732271  ...           7.0
17       13.376080  13.511968  14.732271  13.774471  ...           1.0
18       13.511968  14.732271  13.774471  12.709106  ...           2.0

        weekday(t-6)  weekday(t-7)  weekday(t-8)  weekday(t-9)  weekday(t-10)  \
14               4.0           3.0           2.0           1.0            7.0
15               5.0           4.0           3.0           2.0            1.0
16               6.0           5.0           4.0           3.0            2.0
17               7.0           6.0           5.0           4.0            3.0
18               1.0           7.0           6.0           5.0            4.0

        weekday(t-11)  weekday(t-12)  weekday(t-13)  weekday(t-14)
14                6.0            5.0            4.0            3.0
15                7.0            6.0            5.0            4.0
16                1.0            7.0            6.0            5.0
17                2.0            1.0            7.0            6.0
18                3.0            2.0            1.0            7.0

        [5 rows x 101 columns]
```

In [8]: daily_dia=daily_dia.drop([829,828,827,826,825,824,823, 822,821,820,819,818,817,816,815
```
daily_dia.tail(5)
```

Out[8]:
```
        energy_sum        y+1        y+2        y+3        y+4        y+5  \
795      11.409880  11.620778  12.729659  11.753871  11.344805  11.800777
796      11.620778  12.729659  11.753871  11.344805  11.800777  11.685169
797      12.729659  11.753871  11.344805  11.800777  11.685169  11.857957
798      11.753871  11.344805  11.800777  11.685169  11.857957  11.710582
799      11.344805  11.800777  11.685169  11.857957  11.710582  12.078164
```

```
              y+6          y+7          y+8          y+9  ...   weekday(t-5)  \
795    11.685169    11.857957    11.710582    12.078164  ...            7.0
796    11.857957    11.710582    12.078164    11.280011  ...            1.0
797    11.710582    12.078164    11.280011    11.095584  ...            2.0
798    12.078164    11.280011    11.095584    11.415105  ...            3.0
799    11.280011    11.095584    11.415105    11.445403  ...            4.0

       weekday(t-6)   weekday(t-7)   weekday(t-8)   weekday(t-9)   weekday(t-10)  \
795             6.0            5.0            4.0            3.0             2.0
796             7.0            6.0            5.0            4.0             3.0
797             1.0            7.0            6.0            5.0             4.0
798             2.0            1.0            7.0            6.0             5.0
799             3.0            2.0            1.0            7.0             6.0

       weekday(t-11)   weekday(t-12)   weekday(t-13)   weekday(t-14)
795              1.0             7.0             6.0             5.0
796              2.0             1.0             7.0             6.0
797              3.0             2.0             1.0             7.0
798              4.0             3.0             2.0             1.0
799              5.0             4.0             3.0             2.0

[5 rows x 101 columns]
```

In [9]: `len(daily_dia)`

Out[9]: 786

In [10]: 
```
#normalitzem
scaler=preprocessing.MinMaxScaler(feature_range=(0, 1))
daily_dia_norm=scaler.fit_transform(daily_dia)
```

In [19]: 
```
print(daily_dia_norm[0,29])
print(daily_dia_norm[0,30])
print(daily_dia_norm[0,31])
```

```
0.6545254976346351
0.6401735578332681
0.5232852964990304
```

In [11]: 
```
#Seleccionem dades per test i train
y_daily=daily_dia_norm[:,0:30]
X_daily=daily_dia_norm[:,31:101]

#y_daily=daily_dia['energy_sum']
#X_daily=daily_dia.drop(['energy_sum'], axis='columns')
```

```
        #Reshape de [samples,timesteps] a [samples,timesteps,features]

        #Enlloc de 14 features en son 7 de una feature i 7 duna altre
        X_daily=np.reshape(X_daily, (X_daily.shape[0], 14,5))

In [12]: # definim model
        import tensorflow as tf
        model =Sequential()
        model.add(LSTM(50, activation='relu', input_shape=(14, 5)))
        model.add(Dense(30))
        model.compile(optimizer='adam', loss='mse', metrics=['accuracy'])

WARNING:tensorflow:From c:\users\laura\appdata\local\programs\python\python37\lib\site-packages
Instructions for updating:
Colocations handled automatically by placer.


In [13]: import math
        from sklearn.metrics import mean_squared_error

        #Walk forward per test i train
        minim=100
        n_train=465
        lenght=len(daily_dia)

        llista_evaluate=list()
        llista_prediccions=list()
        llista_preditrain=list()
        llista_scores=list()
        llista_scoretrain=list()
        sumScores=0

        for i in range(n_train,lenght):
            #minim=minim+1
            X_train,X_test= X_daily[minim:i],X_daily[i:i+1]
            y_train,y_test= y_daily[minim:i],y_daily[i:i+1]

            #fem fit al model
            model.fit(X_train, y_train, epochs=50, verbose=0)

            #mostrem score per cada model
            score=model.evaluate(X_test,y_test,verbose=0)
            llista_evaluate.append(score)

            #Predim per cadascun
            preditest=model.predict(X_test)
            llista_prediccions.append(preditest)
```

```
        preditrain=model.predict(X_train)
        llista_preditrain.append(preditrain)

        trainScore = math.sqrt(mean_squared_error(y_train, preditrain))
        llista_scoretrain.append(trainScore )


        testScore = math.sqrt(mean_squared_error(y_test, preditest))
        llista_scores.append(testScore)

        sumScores=sumScores+testScore
```

WARNING:tensorflow:From c:\users\laura\appdata\local\programs\python\python37\lib\site-packages
Instructions for updating:
Use tf.cast instead.


In [14]: *#Dividim la suma de scores de test entre el nombre de prediccions per obtenir la mitj*
          sumScores/(lenght-n_train)

Out[14]: 0.06460530063658373

In [15]: *#Fem llista amb les prediccions*
         llista_p=list()
         for i in range(len(llista_prediccions)):
             llista_p.append(llista_prediccions[i].tolist())

         llista_p

Out[15]: [[[0.5169984102249146,
           0.544135332107544,
           0.5513967871665955,
           0.5335243940353394,
           0.5097506642341614,
           0.5058833360671997,
           0.497553288936615,
           0.49505648016929626,
           0.5474539995193481,
           0.5920792818069458,
           0.531550943851471,
           0.5093493461608887,
           0.5019322633743286,
           0.5084178447723389,
           0.501291811466217,
           0.5562771558761597,
           0.5467121601104736,
           0.5256911516189575,
           0.49580320715904236,

```
    0.5096501708030701,
    0.5019417405128479,
    0.5244899988174438,
    0.5388465523719788,
    0.5850584506988525,
    0.5063803195953369,
    0.47663208842277527,
    0.4898463487625122,
    0.4897094666957855,
    0.5031437873840332,
    0.5591967105865479]],
[[0.554456889629364,
    0.616028904914856,
    0.5353803634643555,
    0.5094918608665466,
    0.4819636344909668,
    0.46871131658554077,
    0.5100905299186707,
    0.5032240748405457,
    0.5864401459693909,
    0.5565032958984375,
    0.512022078037262,
    0.4869435429573059,
    0.4855465292930603,
    0.5301925539970398,
    0.5484603047370911,
    0.5744755864143372,
    0.530427873134613,
    0.4919913113117218,
    0.49650365114212036,
    0.47584834694862366,
    0.4856956899166107,
    0.5398880839347839,
    0.5652663111686707,
    0.5577296614646912,
    0.49848780035972595,
    0.48997223377227783,
    0.48966118693351746,
    0.4988016188144684,
    0.5208290219306946,
    0.5736994743347168]],
[[0.5636269450187683,
    0.5302484035491943,
    0.48608651757240295,
    0.4838448166847229,
    0.5001890063285828,
    0.5059568285942078,
    0.5248229503631592,
```

```
      0.5537251234054565,
      0.5303988456726074,
      0.5095418095588684,
      0.47912660241127014,
      0.4935906231403351,
      0.5329663753509521,
      0.5636547803878784,
      0.5843207240104675,
      0.5376368761062622,
      0.5073288679122925,
      0.49191054701805115,
      0.5094739198684692,
      0.5281378030776978,
      0.5446628928184509,
      0.5662938952445984,
      0.5073167681694031,
      0.513333261013031,
      0.45325684547424316,
      0.47787973284721375,
      0.5116075873374939,
      0.5059491991996765,
      0.5515631437301636,
      0.5342369675636292]],
  [[0.5377002358436584,
      0.5415374040603638,
      0.5142110586166382,
      0.5337471961975098,
      0.5429397821426392,
      0.5573881268501282,
      0.5832314491271973,
      0.5377384424209595,
      0.5112661123275757,
      0.5128255486488342,
      0.5141576528549194,
      0.531511127948761,
      0.5737638473510742,
      0.5904461145401001,
      0.5425865650177002,
      0.5231038331985474,
      0.5070398449897766,
      0.5254979729652405,
      0.5262609720230103,
      0.5588384866714478,
      0.5897232294082642,
      0.5381932854652405,
      0.5453264117240906,
      0.5247960090637207,
      0.523270845413208,
```

```
    0.5595160126686096,
    0.5604439377784729,
    0.5663347244262695,
    0.5622110962867737,
    0.5499322414398193]],
  [[0.5574380159378052,
    0.5436652302742004,
    0.5279057621955872,
    0.5440598726272583,
    0.6007455587387085,
    0.6293870210647583,
    0.5680303573608398,
    0.5515955686569214,
    0.5374524593353271,
    0.5616964101791382,
    0.572938084602356,
    0.6172848343849182,
    0.6365975141525269,
    0.6221169233322144,
    0.5716733932495117,
    0.5513086915016174,
    0.5445771217346191,
    0.5863016247749329,
    0.6056252717971802,
    0.6281076073646545,
    0.5880705118179321,
    0.5649939179420471,
    0.5192686915397644,
    0.5677821636199951,
    0.5610087513923645,
    0.5896385908126831,
    0.6290544271469116,
    0.5803185105323792,
    0.579277515411377,
    0.5548352599143982]],
  [[0.5394307374954224,
    0.5276618003845215,
    0.569931149482727,
    0.61477130651474,
    0.6536350846290588,
    0.6180727481842041,
    0.5560314655303955,
    0.53392094373703,
    0.5712253451347351,
    0.5533860921859741,
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```

```
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    0.5340310335159302,
    0.46387019753456116,
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    0.5268709659576416,
    0.5618013739585876,
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    0.560930073261261,
    0.5026720762252808,
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```

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          0.531461775302887,
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          0.5364043116569519,
          0.583183228969574,
          0.6420534253120422,
          0.6481446027755737,
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```
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                0.5058121085166931,
                0.5654782652854919,
                0.5644012093544006,
                0.47968900203704834,
                0.5040864944458008,
                0.5302212238311768]]]
```

In [17]: *#Fem llista amb la predicció de només el dia següent*
```python
llista_p0=list()
for i in range(len(llista_p)):
    llista_p0.append(llista_p[i][0][0])

#Fem llista amb la predicció de 2 dies
llista_p1=list()
for i in range(len(llista_p)):
    llista_p1.append(llista_p[i][0][1])

#Altres dies

llista_p2=list()
for i in range(len(llista_p)):
    llista_p2.append(llista_p[i][0][2])

llista_p3=list()
for i in range(len(llista_p)):
    llista_p3.append(llista_p[i][0][3])

llista_p4=list()
for i in range(len(llista_p)):
    llista_p4.append(llista_p[i][0][4])

llista_p5=list()
for i in range(len(llista_p)):
    llista_p5.append(llista_p[i][0][5])

llista_p6=list()
for i in range(len(llista_p)):
    llista_p6.append(llista_p[i][0][6])

llista_p7=list()
for i in range(len(llista_p)):
    llista_p7.append(llista_p[i][0][7])
```

```python
llista_p8=list()
for i in range(len(llista_p)):
    llista_p8.append(llista_p[i][0][8])

llista_p9=list()
for i in range(len(llista_p)):
    llista_p9.append(llista_p[i][0][9])

llista_p10=list()
for i in range(len(llista_p)):
    llista_p10.append(llista_p[i][0][10])

llista_p11=list()
for i in range(len(llista_p)):
    llista_p11.append(llista_p[i][0][11])

llista_p12=list()
for i in range(len(llista_p)):
    llista_p12.append(llista_p[i][0][12])

llista_p13=list()
for i in range(len(llista_p)):
    llista_p13.append(llista_p[i][0][13])

llista_p14=list()
for i in range(len(llista_p)):
    llista_p14.append(llista_p[i][0][14])

llista_p15=list()
for i in range(len(llista_p)):
    llista_p15.append(llista_p[i][0][15])

llista_p16=list()
for i in range(len(llista_p)):
    llista_p16.append(llista_p[i][0][16])

llista_p17=list()
for i in range(len(llista_p)):
    llista_p17.append(llista_p[i][0][17])

llista_p18=list()
for i in range(len(llista_p)):
    llista_p18.append(llista_p[i][0][18])

llista_p19=list()
for i in range(len(llista_p)):
    llista_p19.append(llista_p[i][0][19])
```

```
llista_p20=list()
for i in range(len(llista_p)):
    llista_p20.append(llista_p[i][0][20])

llista_p21=list()
for i in range(len(llista_p)):
    llista_p21.append(llista_p[i][0][21])

llista_p22=list()
for i in range(len(llista_p)):
    llista_p22.append(llista_p[i][0][22])

llista_p23=list()
for i in range(len(llista_p)):
    llista_p23.append(llista_p[i][0][23])

    llista_p24=list()
for i in range(len(llista_p)):
    llista_p24.append(llista_p[i][0][24])

llista_p25=list()
for i in range(len(llista_p)):
    llista_p25.append(llista_p[i][0][25])

llista_p26=list()
for i in range(len(llista_p)):
    llista_p26.append(llista_p[i][0][26])

llista_p27=list()
for i in range(len(llista_p)):
    llista_p27.append(llista_p[i][0][27])

llista_p28=list()
for i in range(len(llista_p)):
    llista_p28.append(llista_p[i][0][28])

llista_p29=list()
for i in range(len(llista_p)):
    llista_p29.append(llista_p[i][0][29])
```

```
In [19]: score0=math.sqrt(mean_squared_error(y_daily[n_train:lenght,0], llista_p0))
         print("Error predicció 1 dia següent: {}".format(score0))
         score1=math.sqrt(mean_squared_error(y_daily[n_train:lenght,1], llista_p1))
         print("Error predicció 2 dia següent: {}".format(score1))
         score2=math.sqrt(mean_squared_error(y_daily[n_train:lenght,2], llista_p2))
         print("Error predicció 3 dia següent: {}".format(score2))
         score3=math.sqrt(mean_squared_error(y_daily[n_train:lenght,3], llista_p3))
         print("Error predicció 4 dia següent: {}".format(score3))
```

```python
score4=math.sqrt(mean_squared_error(y_daily[n_train:lenght,4], llista_p4))
print("Error predicció 5 dia següent: {}".format(score4))
score5=math.sqrt(mean_squared_error(y_daily[n_train:lenght,5], llista_p5))
print("Error predicció 6 dia següent: {}".format(score5))
score6=math.sqrt(mean_squared_error(y_daily[n_train:lenght,6], llista_p6))
print("Error predicció 7 dia següent: {}".format(score6))
score7=math.sqrt(mean_squared_error(y_daily[n_train:lenght,7], llista_p7))
print("Error predicció 8 dia següent: {}".format(score7))
score8=math.sqrt(mean_squared_error(y_daily[n_train:lenght,8], llista_p8))
print("Error predicció 9 dia següent: {}".format(score8))
score9=math.sqrt(mean_squared_error(y_daily[n_train:lenght,9], llista_p9))
print("Error predicció 10 dia següent: {}".format(score9))
score10=math.sqrt(mean_squared_error(y_daily[n_train:lenght,10], llista_p10))
print("Error predicció 11 dia següent: {}".format(score10))
score11=math.sqrt(mean_squared_error(y_daily[n_train:lenght,11], llista_p11))
print("Error predicció 12 dia següent: {}".format(score11))
score12=math.sqrt(mean_squared_error(y_daily[n_train:lenght,12], llista_p12))
print("Error predicció 13 dia següent: {}".format(score12))
score13=math.sqrt(mean_squared_error(y_daily[n_train:lenght,13], llista_p13))
print("Error predicció 14 dia següent: {}".format(score13))
score14=math.sqrt(mean_squared_error(y_daily[n_train:lenght,14], llista_p14))
print("Error predicció 15 dia següent: {}".format(score14))
score15=math.sqrt(mean_squared_error(y_daily[n_train:lenght,15], llista_p15))
print("Error predicció 16 dia següent: {}".format(score15))
score16=math.sqrt(mean_squared_error(y_daily[n_train:lenght,16], llista_p16))
print("Error predicció 17 dia següent: {}".format(score16))
score17=math.sqrt(mean_squared_error(y_daily[n_train:lenght,17], llista_p17))
print("Error predicció 18 dia següent: {}".format(score17))
score18=math.sqrt(mean_squared_error(y_daily[n_train:lenght,18], llista_p18))
print("Error predicció 19 dia següent: {}".format(score18))
score19=math.sqrt(mean_squared_error(y_daily[n_train:lenght,19], llista_p19))
print("Error predicció 20 dia següent: {}".format(score19))
score20=math.sqrt(mean_squared_error(y_daily[n_train:lenght,20], llista_p20))
print("Error predicció 21 dia següent: {}".format(score20))
score21=math.sqrt(mean_squared_error(y_daily[n_train:lenght,21], llista_p21))
print("Error predicció 22 dia següent: {}".format(score21))
score22=math.sqrt(mean_squared_error(y_daily[n_train:lenght,22], llista_p22))
print("Error predicció 23 dia següent: {}".format(score22))
score23=math.sqrt(mean_squared_error(y_daily[n_train:lenght,23], llista_p23))
print("Error predicció 24 dia següent: {}".format(score23))
score24=math.sqrt(mean_squared_error(y_daily[n_train:lenght,24], llista_p24))
print("Error predicció 25 dia següent: {}".format(score24))
score25=math.sqrt(mean_squared_error(y_daily[n_train:lenght,25], llista_p25))
print("Error predicció 26 dia següent: {}".format(score25))
score26=math.sqrt(mean_squared_error(y_daily[n_train:lenght,26], llista_p26))
print("Error predicció 27 dia següent: {}".format(score26))
score27=math.sqrt(mean_squared_error(y_daily[n_train:lenght,27], llista_p27))
print("Error predicció 28 dia següent: {}".format(score27))
```

```
        score28=math.sqrt(mean_squared_error(y_daily[n_train:lenght,28], llista_p28))
        print("Error predicció 29 dia següent: {}".format(score28))
        score29=math.sqrt(mean_squared_error(y_daily[n_train:lenght,29], llista_p29))
        print("Error predicció 30 dia següent: {}".format(score29))
```

```
Error predicció 1 dia següent: 0.047713475502803276
Error predicció 2 dia següent: 0.05334677125316044
Error predicció 3 dia següent: 0.06105267280071678
Error predicció 4 dia següent: 0.06456381451782518
Error predicció 5 dia següent: 0.06856752725109426
Error predicció 6 dia següent: 0.06379745139010491
Error predicció 7 dia següent: 0.06577296181561096
Error predicció 8 dia següent: 0.06328989459823108
Error predicció 9 dia següent: 0.06122628399775239
Error predicció 10 dia següent: 0.06412780628932768
Error predicció 11 dia següent: 0.0625173249896466
Error predicció 12 dia següent: 0.06445061541670374
Error predicció 13 dia següent: 0.06923830537711873
Error predicció 14 dia següent: 0.06769823228481564
Error predicció 15 dia següent: 0.06650784420586008
Error predicció 16 dia següent: 0.06954945689190016
Error predicció 17 dia següent: 0.07204898652168114
Error predicció 18 dia següent: 0.07331459177650745
Error predicció 19 dia següent: 0.07687798756444528
Error predicció 20 dia següent: 0.08455152716041575
Error predicció 21 dia següent: 0.08543587906060066
Error predicció 22 dia següent: 0.08306432296521903
Error predicció 23 dia següent: 0.07742337668520707
Error predicció 24 dia següent: 0.07768617764032275
Error predicció 25 dia següent: 0.08094524735123418
Error predicció 26 dia següent: 0.08726743943351789
Error predicció 27 dia següent: 0.0868921352453962
Error predicció 28 dia següent: 0.08628596014469317
Error predicció 29 dia següent: 0.08662548745096152
Error predicció 30 dia següent: 0.09317324678772622
```

```
In [20]: predis=list()

         for i in range(len(llista_prediccions)):
             predi=llista_prediccions[i].tolist()
             predis.append(predi)

         predis=np.reshape(predis, (len(llista_prediccions),30)  )

         predis

Out[20]: array([[0.51699841, 0.54413533, 0.55139679, ..., 0.48970947, 0.50314379,
                 0.55919671],
```

```
          [0.55445689, 0.6160289 , 0.53538036, ..., 0.49880162, 0.52082902,
           0.57369947],
          [0.56362695, 0.5302484 , 0.48608652, ..., 0.5059492 , 0.55156314,
           0.53423697],
          ...,
          [0.55830896, 0.47810671, 0.45744586, ..., 0.51726842, 0.52612764,
           0.46155643],
          [0.50145417, 0.45699814, 0.44939944, ..., 0.50002337, 0.46189034,
           0.44040731],
          [0.54502934, 0.51694143, 0.4654837 , ..., 0.479689  , 0.50408649,
           0.53022122]])
```

In [21]: ```python
##Mostrem
plt.plot(predis[4], label="predit")
plt.plot(y_daily[n_train+4], label="real")
plt.legend(loc="lower right")
plt.show()
```



In [22]: ```python
##Mostrem
plt.plot(llista_p0, label="predit1")
plt.plot(y_daily[n_train:lenght,0], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 1 dia següent")
plt.show()

plt.plot(llista_p1, label="predit2")
```
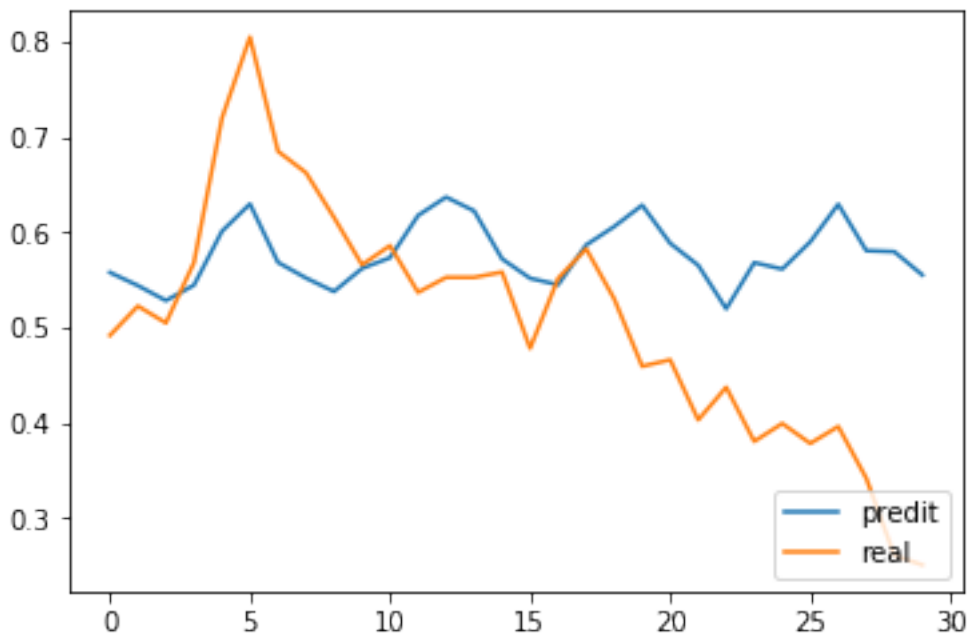
```python
plt.plot(y_daily[n_train:lenght,1], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 2 dia següent")
plt.show()


plt.plot(llista_p2, label="predit3")
plt.plot(y_daily[n_train:lenght,2], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 3 dia següent")
plt.show()

plt.plot(llista_p3, label="predit4")
plt.plot(y_daily[n_train:lenght,3], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 4 dia següent")
plt.show()

plt.plot(llista_p4, label="predit5")
plt.plot(y_daily[n_train:lenght,4], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 5 dia següent")
plt.show()

plt.plot(llista_p5, label="predit6")
plt.plot(y_daily[n_train:lenght,5], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 6 dia següent")
plt.show()

plt.plot(llista_p6, label="predit7")
plt.plot(y_daily[n_train:lenght,6], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 7 dia següent")
plt.show()

plt.plot(llista_p14, label="predit15")
plt.plot(y_daily[n_train:lenght,14], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 15 dia següent")
plt.show()

plt.plot(llista_p21, label="predit22")
plt.plot(y_daily[n_train:lenght,21], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 22 dia següent")
plt.show()
```

```
plt.plot(llista_p29, label="predit30")
plt.plot(y_daily[n_train:lenght,29], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 30 dia següent")
plt.show()
```

Predicció 1 dia següent



Predicció 2 dia següent
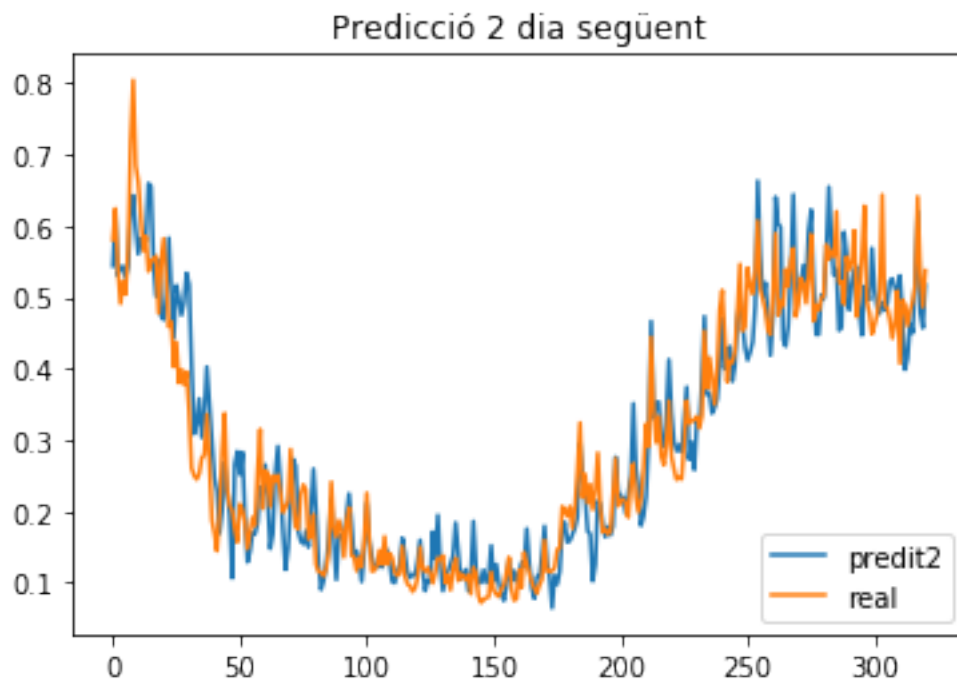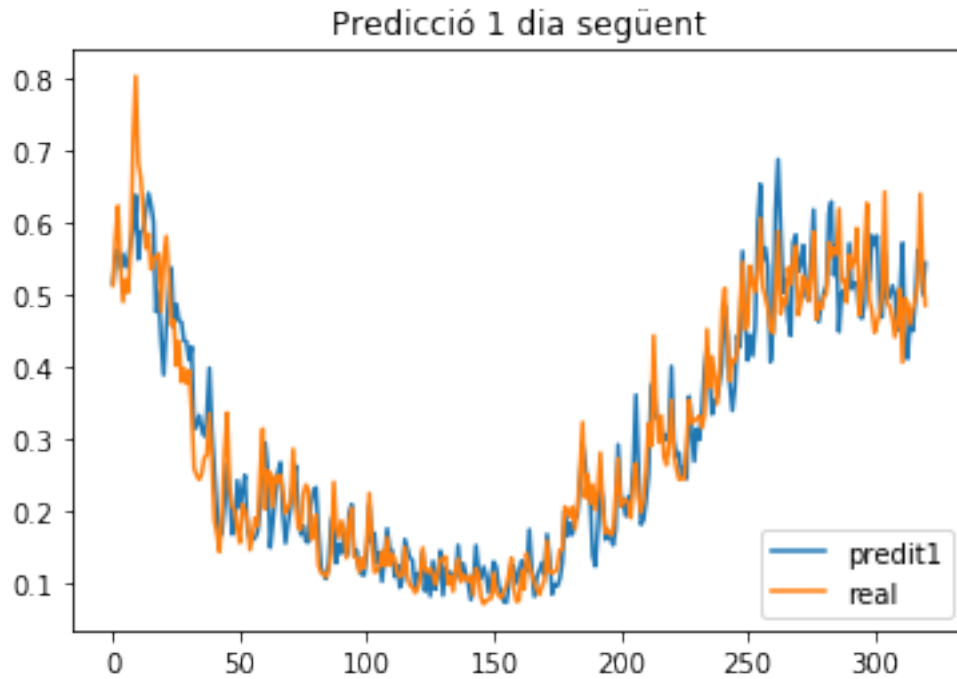
Predicció 3 dia següent
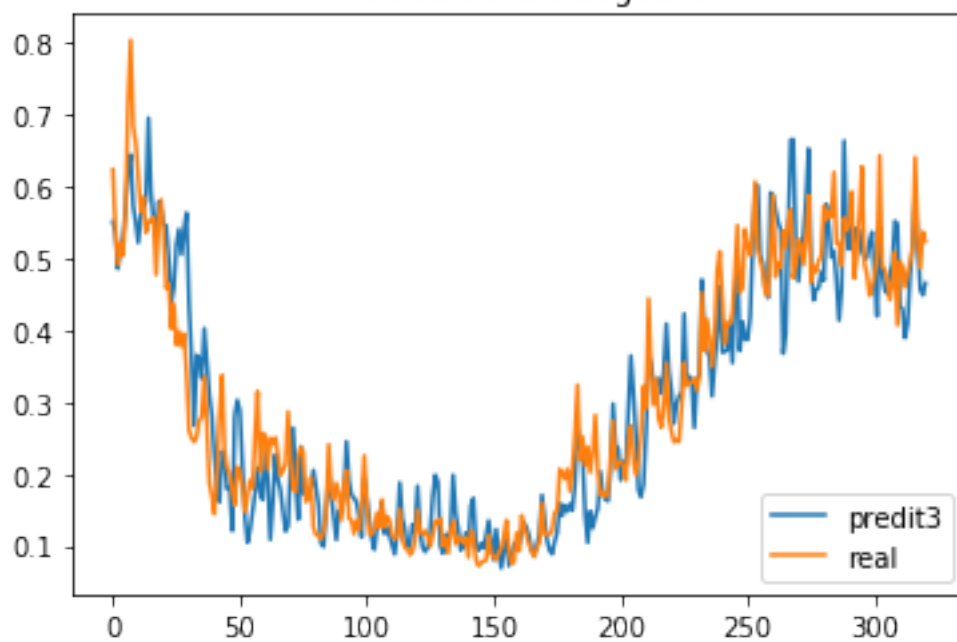


Predicció 4 dia següent
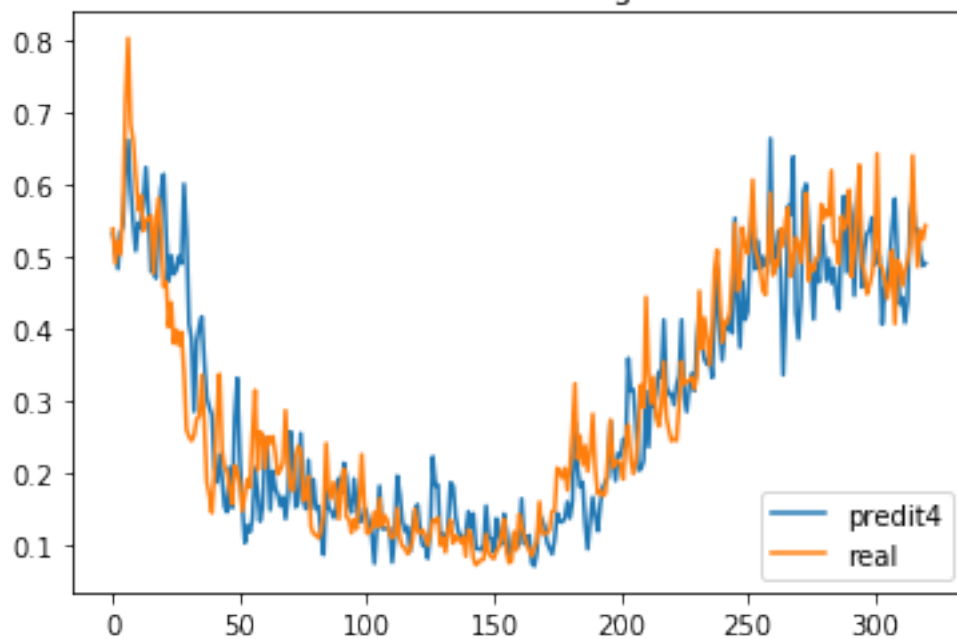
## Predicció 5 dia següent
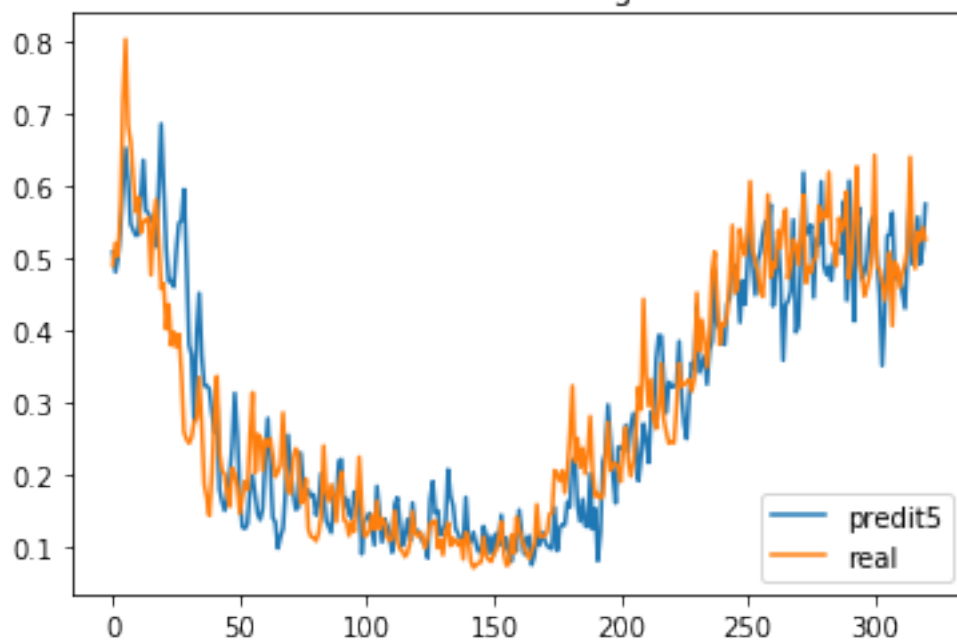


## Predicció 6 dia següent
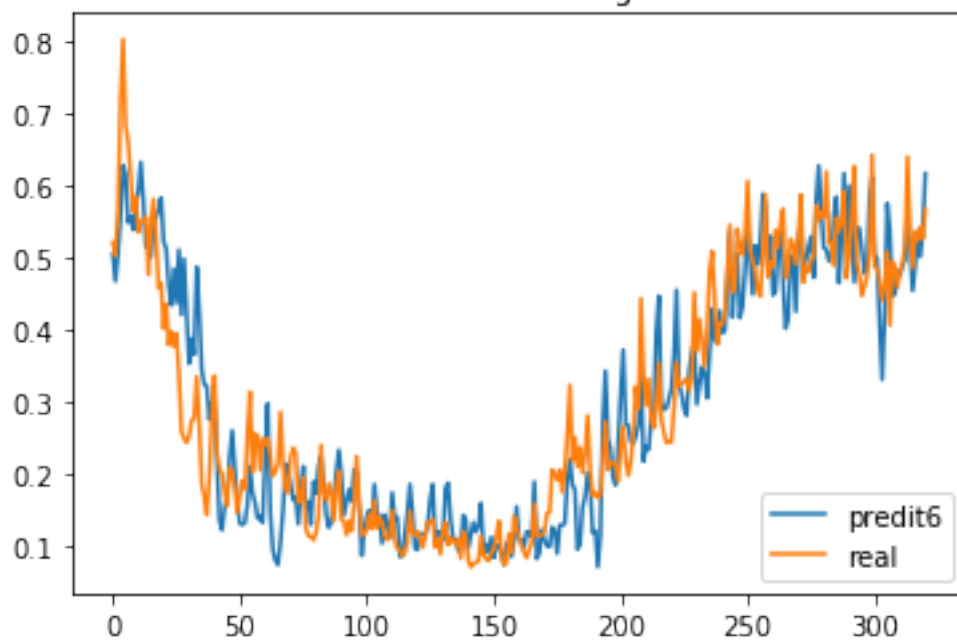
Predicció 7 dia següent
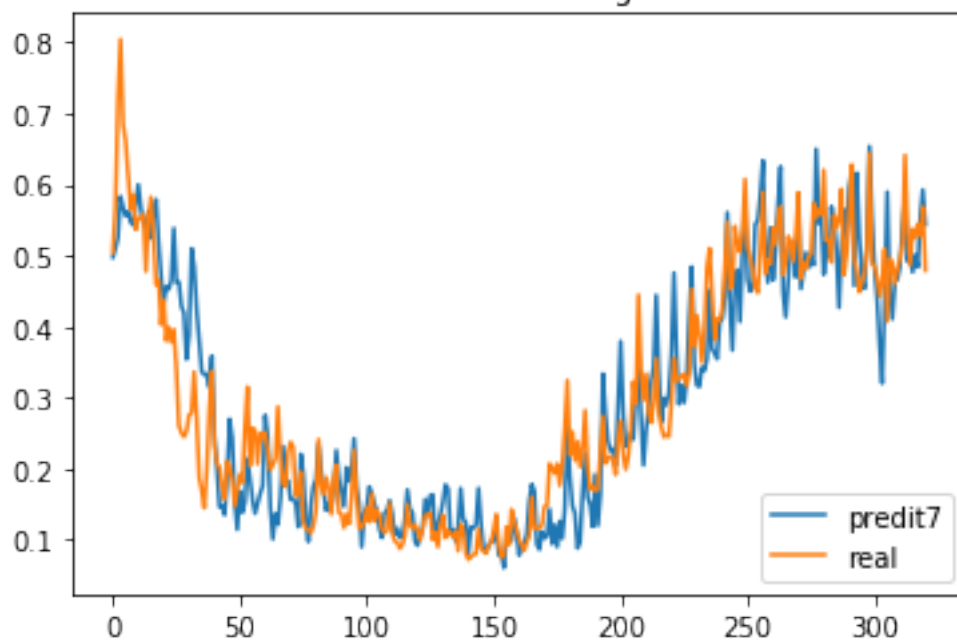


Predicció 15 dia següent
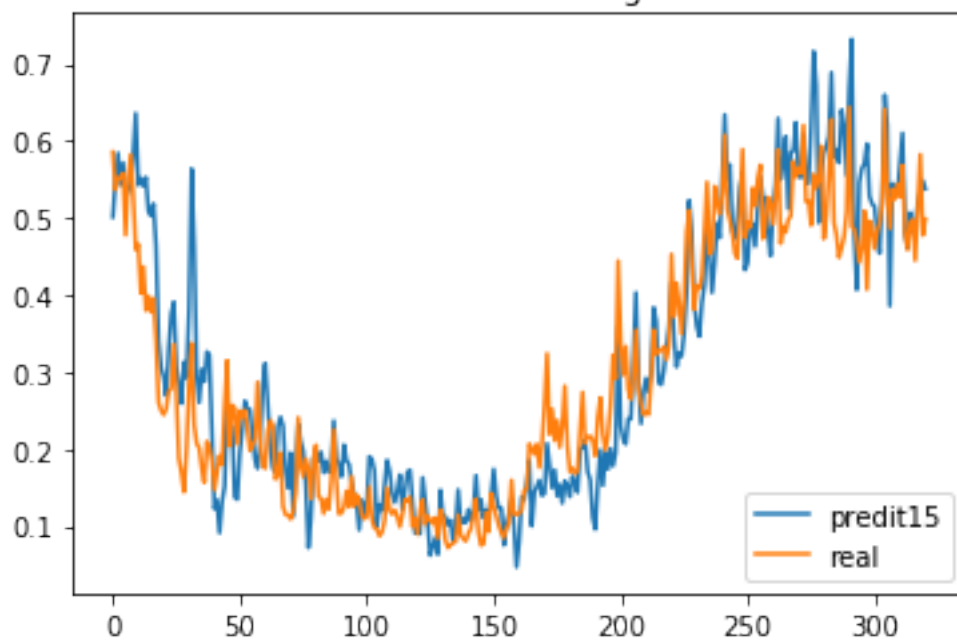
Predicció 22 dia següent
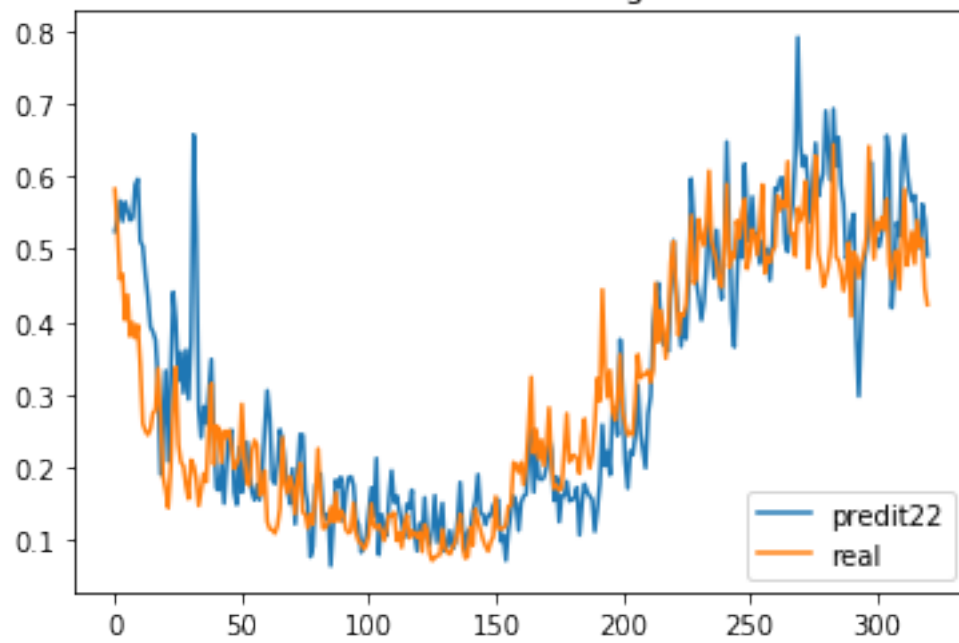


Predicció 30 dia següent
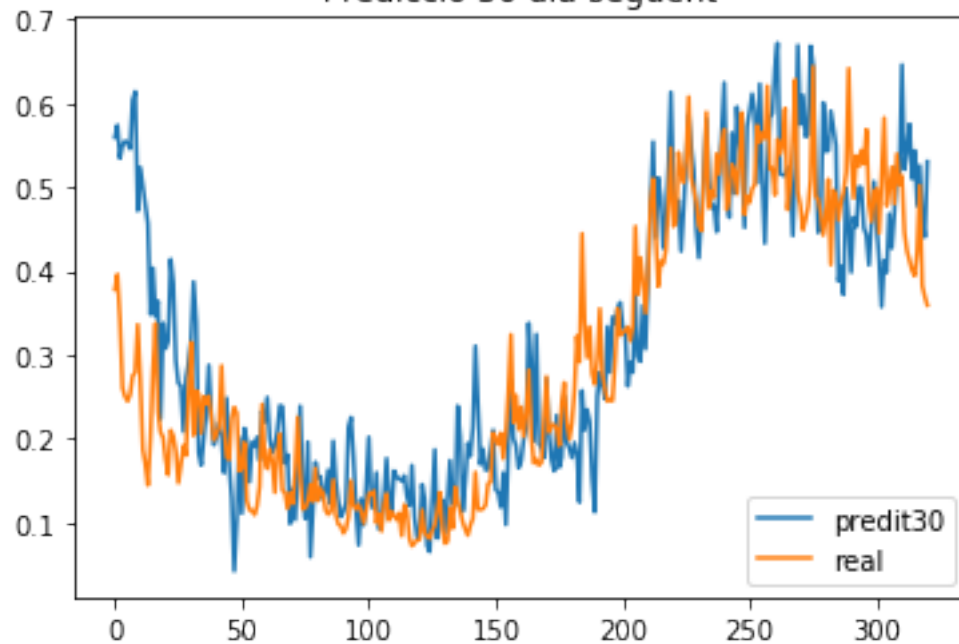
In [ ]:

```
In [12]: llista_scores

Out[12]: [0.0032813839690737368,
          0.08255193851794984,
          0.0045423211984649825,
          0.018203012090584503,
          0.01737050278037433,
          0.06542844147766158,
          0.033085725603486216,
          0.01214984558724641,
          0.10088646822462355,
          0.05175425053279037,
          0.03787588832020816,
          0.05282771697474975,
          0.09515512448993624,
          0.08068377226597367,
          0.024253962991972466,
          0.12456723948404158,
          0.11994353720004236,
          0.041703484570434934,
          0.10958477289329593,
          0.07900614090861402,
          0.027063930434184202,
          0.08668039456569221,
          0.052258605764777366,
          0.003057256599590996,
          0.04910935473916056,
          0.029648361342025975,
          0.051468917015615734,
          0.074694268734708755,
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    0.027656990847906737,
    0.007598504730579103,
    0.037483932714463375]
```

In [23]: `plt.plot(llista_scores)`

Out[23]: `[<matplotlib.lines.Line2D at 0x2bb8be47048>]`
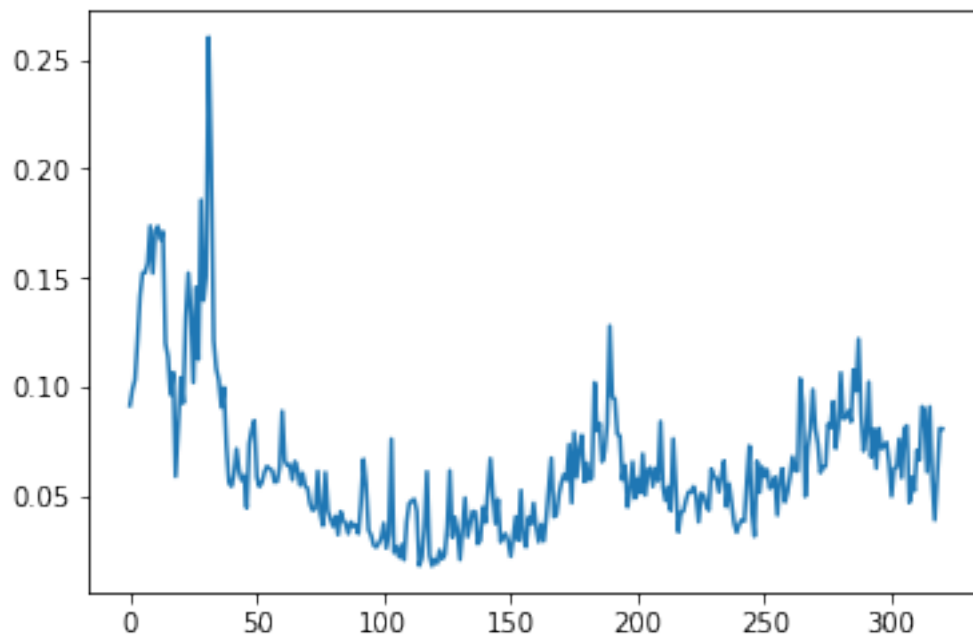


In [34]:
```
prova=daily_dia.iloc[n_train:lenght]
prova
#len(predis)
#lenght-n_train
```

```python
#prova['predi']=predis
prova['predi1']=llista_p0
prova['predi2']=llista_p1
prova['predi3']=llista_p2
prova['predi4']=llista_p3
prova['predi5']=llista_p4
prova['predi6']=llista_p5
prova['predi7']=llista_p6
prova['predi8']=llista_p7
prova['predi9']=llista_p8
prova['predi10']=llista_p9
prova['predi11']=llista_p10
prova['predi12']=llista_p11
prova['predi13']=llista_p12
prova['predi14']=llista_p13
prova['predi15']=llista_p14
prova['predi16']=llista_p15
prova['predi17']=llista_p16
prova['predi18']=llista_p17
prova['predi19']=llista_p18
prova['predi20']=llista_p19
prova['predi21']=llista_p20
prova['predi22']=llista_p21
prova['predi23']=llista_p22
prova['predi24']=llista_p23
prova['predi25']=llista_p24
prova['predi26']=llista_p25
prova['predi27']=llista_p26
prova['predi28']=llista_p27
prova['predi29']=llista_p28
prova['predi30']=llista_p29


prova['y1']=y_daily[n_train:lenght,0]
prova['y2']=y_daily[n_train:lenght,1]
prova['y3']=y_daily[n_train:lenght,2]
prova['y4']=y_daily[n_train:lenght,3]
prova['y5']=y_daily[n_train:lenght,4]
prova['y6']=y_daily[n_train:lenght,5]
prova['y7']=y_daily[n_train:lenght,6]
prova['y8']=y_daily[n_train:lenght,7]
prova['y9']=y_daily[n_train:lenght,8]
prova['y10']=y_daily[n_train:lenght,9]
prova['y11']=y_daily[n_train:lenght,10]
prova['y12']=y_daily[n_train:lenght,11]
prova['y13']=y_daily[n_train:lenght,12]
```

```python
prova['y14']=y_daily[n_train:lenght,13]
prova['y15']=y_daily[n_train:lenght,14]
prova['y16']=y_daily[n_train:lenght,15]
prova['y17']=y_daily[n_train:lenght,16]
prova['y18']=y_daily[n_train:lenght,17]
prova['y19']=y_daily[n_train:lenght,18]
prova['y20']=y_daily[n_train:lenght,19]
prova['y21']=y_daily[n_train:lenght,20]
prova['y22']=y_daily[n_train:lenght,21]
prova['y23']=y_daily[n_train:lenght,22]
prova['y24']=y_daily[n_train:lenght,23]
prova['y25']=y_daily[n_train:lenght,24]
prova['y26']=y_daily[n_train:lenght,25]
prova['y27']=y_daily[n_train:lenght,26]
prova['y28']=y_daily[n_train:lenght,27]
prova['y29']=y_daily[n_train:lenght,28]
prova['y30']=y_daily[n_train:lenght,29]




prova=prova.drop(['energy_sum','t-1','t-2','t-3', 't-4', 't-5', 't-6', 't-7','t-8','t-
prova

prova1=prova[['predi1','predi2','predi3','predi4','predi5','predi6','predi7','predi8'
prova

prova2=prova[['predi15','predi16','predi17','predi18','predi19','predi20','predi21','
```

c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:8
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html

c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:9
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
  if __name__ == '__main__':
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
  # Remove the CWD from sys.path while we load stuff.
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:

```
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
  # This is added back by InteractiveShellApp.init_path()
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
  if sys.path[0] == '':
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
  del sys.path[0]
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html

c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
  from ipykernel import kernelapp as app
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
  app.launch_new_instance()
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
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Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
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c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
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c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:

```
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:3
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:3
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:4
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:4
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Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
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Try using .loc[row_indexer,col_indexer] = value instead

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c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:5
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:5
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:5
A value is trying to be set on a copy of a slice from a DataFrame.

```
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:5
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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
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Try using .loc[row_indexer,col_indexer] = value instead

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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:6
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:6
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
```

```
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:(
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
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c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:(
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A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:7
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:7
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html

```
In [35]: # Convert predictions back to normal values

         predi = scaler.inverse_transform(prova1)
         predi2= scaler.inverse_transform(prova2)

         print(predi)
         #0-6 predi
         print(predi[0][0])
         print(predi[0][1])
         print(predi[0][2])
         print(predi[0][3])
         print(predi[0][4])
         print(predi[0][5])
         print(predi[0][6])

         #7-13 y

         print(predi[0][7])
         print(predi[0][8])
         print(predi[0][9])
         print(predi[0][10])
         print(predi[0][11])
         print(predi[0][12])
         print(predi[0][13])
[[11.61714607 11.86003432 11.92502777 ... 43.         37.
   31.         ]
 [11.95241713 12.50351572 11.78167322 ...  7.         43.
   37.         ]
 [12.03449345 11.73573976 11.34047005 ... 13.          7.
   43.         ]
 ...
 [11.98689497 11.26904698 11.08412265 ... 13.          7.
   43.         ]
 [11.47801783 11.08011534 11.01210341 ... 19.         13.
    7.         ]
 [11.86803613 11.61663605 11.15606507 ... 25.         19.
   13.         ]]
11.617146068427322
11.86003432218781
11.92502777084354
11.765061420313916
11.552275322400654
11.517660910742073
```

```
11.443103058895751
11.420755442460443
11.889737961235424
12.289155291442706
11.7473981101155
11.548683336307267
11.482296946066828
11.540345959407304


In [44]: llista1=list()
         llista2=list()
         llista3=list()
         llista4=list()
         llista5=list()
         llista6=list()
         llista7=list()
         llista8=list()
         llista9=list()
         llista10=list()
         llista11=list()
         llista12=list()
         llista13=list()
         llista14=list()
         llista15=list()
         llista16=list()
         llista17=list()
         llista18=list()
         llista19=list()
         llista20=list()
         llista21=list()
         llista22=list()
         llista23=list()
         llista24=list()
         llista25=list()
         llista26=list()
         llista27=list()
         llista28=list()
         llista29=list()
         llista30=list()

         llistay1=list()
         llistay2=list()
         llistay3=list()
         llistay4=list()
         llistay5=list()
         llistay6=list()
         llistay7=list()
```

```
llistay8=list()
llistay9=list()
llistay10=list()
llistay11=list()
llistay12=list()
llistay13=list()
llistay14=list()
llistay15=list()
llistay16=list()
llistay17=list()
llistay18=list()
llistay19=list()
llistay20=list()
llistay21=list()
llistay22=list()
llistay23=list()
llistay24=list()
llistay25=list()
llistay26=list()
llistay27=list()
llistay28=list()
llistay29=list()
llistay30=list()


llista_errors1=list()
llista_errorsabs1=list()
llista_errorsres1=list()


llista_errors2=list()
llista_errorsabs2=list()
llista_errorsres2=list()


llista_errors3=list()
llista_errorsabs3=list()
llista_errorsres3=list()

llista_errors4=list()
llista_errorsabs4=list()
llista_errorsres4=list()

llista_errors5=list()
llista_errorsabs5=list()
llista_errorsres5=list()

llista_errors6=list()
```

```python
        llista_errorsabs6=list()
        llista_errorsres6=list()

        llista_errors7=list()
        llista_errorsabs7=list()
        llista_errorsres7=list()

        llista_errors10=list()
        llista_errorsabs10=list()
        llista_errorsres10=list()

        llista_errors15=list()
        llista_errorsabs15=list()
        llista_errorsres15=list()

        llista_errors20=list()
        llista_errorsabs20=list()
        llista_errorsres20=list()

        llista_errors25=list()
        llista_errorsabs25=list()
        llista_errorsres25=list()

        llista_errors30=list()
        llista_errorsabs30=list()
        llista_errorsres30=list()


        llista_errorsres8=list()
        llista_errorsres9=list()
        llista_errorsres11=list()
        llista_errorsres12=list()
        llista_errorsres13=list()
        llista_errorsres14=list()
        llista_errorsres16=list()
        llista_errorsres17=list()
        llista_errorsres18=list()
        llista_errorsres19=list()
        llista_errorsres21=list()
        llista_errorsres22=list()
        llista_errorsres23=list()
        llista_errorsres24=list()
        llista_errorsres26=list()
        llista_errorsres27=list()
        llista_errorsres28=list()
        llista_errorsres29=list()

        for i in range(len(predi)):
```

```
llista1.append(predi[i][0])
llista2.append(predi[i][1])
llista3.append(predi[i][2])
llista4.append(predi[i][3])
llista5.append(predi[i][4])
llista6.append(predi[i][5])
llista7.append(predi[i][6])
llista8.append(predi[i][7])
llista9.append(predi[i][8])
llista10.append(predi[i][9])
llista11.append(predi[i][10])
llista12.append(predi[i][11])
llista13.append(predi[i][12])
llista14.append(predi[i][13])

llistay1.append(predi[i][14])
llistay2.append(predi[i][15])
llistay3.append(predi[i][16])
llistay4.append(predi[i][17])
llistay5.append(predi[i][18])
llistay6.append(predi[i][19])
llistay7.append(predi[i][20])
llistay8.append(predi[i][21])
llistay9.append(predi[i][22])
llistay10.append(predi[i][23])
llistay11.append(predi[i][24])
llistay12.append(predi[i][25])
llistay13.append(predi[i][26])
llistay14.append(predi[i][27])
llistay15.append(predi[i][28])
llistay16.append(predi[i][29])
llistay17.append(predi[i][30])
llistay18.append(predi[i][31])
llistay19.append(predi[i][32])
llistay20.append(predi[i][33])
llistay21.append(predi[i][34])
llistay22.append(predi[i][35])
llistay23.append(predi[i][36])
llistay24.append(predi[i][37])
llistay25.append(predi[i][38])
llistay26.append(predi[i][39])
llistay27.append(predi[i][40])
llistay28.append(predi[i][41])
llistay29.append(predi[i][42])
llistay30.append(predi[i][43])

llista15.append(predi2[i][0])
```

```python
llista16.append(predi2[i][1])
llista17.append(predi2[i][2])
llista18.append(predi2[i][3])
llista19.append(predi2[i][4])
llista20.append(predi2[i][5])
llista21.append(predi2[i][6])
llista22.append(predi2[i][7])
llista23.append(predi2[i][8])
llista24.append(predi2[i][9])
llista25.append(predi2[i][10])
llista26.append(predi2[i][11])
llista27.append(predi2[i][12])
llista28.append(predi2[i][13])
llista29.append(predi2[i][14])
llista30.append(predi2[i][15])


valor1=llistay1[i] - llista1[i]
valorabs1=math.fabs(valor1)
valorrespecte1=valorabs1/llistay1[i]
llista_errors1.append(valor1)
llista_errorsabs1.append(valorabs1)
llista_errorsres1.append(valorrespecte1)

valor2=llistay2[i] - llista2[i]
valorabs2=math.fabs(valor2)
valorrespecte2=valorabs2/llistay2[i]
llista_errors2.append(valor2)
llista_errorsabs2.append(valorabs2)
llista_errorsres2.append(valorrespecte2)

valor3=llistay3[i] - llista3[i]
valorabs3=math.fabs(valor3)
valorrespecte3=valorabs3/llistay3[i]
llista_errors3.append(valor3)
llista_errorsabs3.append(valorabs3)
llista_errorsres3.append(valorrespecte3)

valor4=llistay4[i] - llista4[i]
valorabs4=math.fabs(valor4)
valorrespecte4=valorabs4/llistay4[i]
llista_errors4.append(valor4)
llista_errorsabs4.append(valorabs4)
llista_errorsres4.append(valorrespecte4)

valor5=llistay5[i] - llista5[i]
valorabs5=math.fabs(valor5)
```

```python
valorrespecte5=valorabs5/llistay5[i]
llista_errors5.append(valor5)
llista_errorsabs5.append(valorabs5)
llista_errorsres5.append(valorrespecte5)

valor6=llistay6[i] - llista6[i]
valorabs6=math.fabs(valor6)
valorrespecte6=valorabs6/llistay6[i]
llista_errors6.append(valor6)
llista_errorsabs6.append(valorabs6)
llista_errorsres6.append(valorrespecte6)

valor7=llistay7[i] - llista7[i]
valorabs7=math.fabs(valor7)
valorrespecte7=valorabs7/llistay7[i]
llista_errors7.append(valor7)
llista_errorsabs7.append(valorabs7)
llista_errorsres7.append(valorrespecte7)

valor8=llistay8[i] - llista8[i]
valorabs8=math.fabs(valor8)
valorrespecte8=valorabs8/llistay8[i]
llista_errorsres8.append(valorrespecte8)

valor9=llistay9[i] - llista9[i]
valorabs9=math.fabs(valor9)
valorrespecte9=valorabs9/llistay9[i]
llista_errorsres9.append(valorrespecte9)



valor10=llistay10[i] - llista10[i]
valorabs10=math.fabs(valor10)
valorrespecte10=valorabs10/llistay10[i]
llista_errors10.append(valor10)
llista_errorsabs10.append(valorabs10)
llista_errorsres10.append(valorrespecte10)

valor11=llistay11[i] - llista11[i]
valorabs11=math.fabs(valor11)
valorrespecte11=valorabs11/llistay11[i]
llista_errorsres11.append(valorrespecte11)

valor12=llistay12[i] - llista12[i]
valorabs12=math.fabs(valor12)
valorrespecte12=valorabs12/llistay12[i]
llista_errorsres12.append(valorrespecte12)
```

```python
valor13=llistay13[i] - llista13[i]
valorabs13=math.fabs(valor13)
valorrespecte13=valorabs13/llistay13[i]
llista_errorsres13.append(valorrespecte13)

valor14=llistay14[i] - llista14[i]
valorabs14=math.fabs(valor14)
valorrespecte14=valorabs14/llistay14[i]
llista_errorsres14.append(valorrespecte14)

valor15=llistay15[i] - llista15[i]
valorabs15=math.fabs(valor15)
valorrespecte15=valorabs15/llistay15[i]
llista_errors15.append(valor15)
llista_errorsabs15.append(valorabs15)
llista_errorsres15.append(valorrespecte15)

valor16=llistay16[i] - llista16[i]
valorabs16=math.fabs(valor16)
valorrespecte16=valorabs16/llistay16[i]
llista_errorsres16.append(valorrespecte16)

valor17=llistay17[i] - llista17[i]
valorabs17=math.fabs(valor17)
valorrespecte17=valorabs17/llistay17[i]
llista_errorsres17.append(valorrespecte17)

valor18=llistay18[i] - llista18[i]
valorabs18=math.fabs(valor18)
valorrespecte18=valorabs18/llistay18[i]
llista_errorsres18.append(valorrespecte18)

valor19=llistay19[i] - llista19[i]
valorabs19=math.fabs(valor19)
valorrespecte19=valorabs19/llistay19[i]
llista_errorsres19.append(valorrespecte19)

valor20=llistay20[i] - llista20[i]
valorabs20=math.fabs(valor20)
valorrespecte20=valorabs20/llistay20[i]
llista_errors20.append(valor20)
llista_errorsabs20.append(valorabs20)
llista_errorsres20.append(valorrespecte20)

valor21=llistay21[i] - llista21[i]
valorabs21=math.fabs(valor21)
valorrespecte21=valorabs21/llistay21[i]
llista_errorsres21.append(valorrespecte21)
```

```python
valor22=llistay22[i] - llista22[i]
valorabs22=math.fabs(valor22)
valorrespecte22=valorabs22/llistay22[i]
llista_errorsres22.append(valorrespecte22)

valor23=llistay23[i] - llista23[i]
valorabs23=math.fabs(valor23)
valorrespecte23=valorabs23/llistay23[i]
llista_errorsres23.append(valorrespecte23)

valor24=llistay24[i] - llista24[i]
valorabs24=math.fabs(valor24)
valorrespecte24=valorabs24/llistay24[i]
llista_errorsres24.append(valorrespecte24)




valor25=llistay25[i] - llista25[i]
valorabs25=math.fabs(valor25)
valorrespecte25=valorabs25/llistay25[i]
llista_errors25.append(valor25)
llista_errorsabs25.append(valorabs25)
llista_errorsres25.append(valorrespecte25)

valor26=llistay26[i] - llista26[i]
valorabs26=math.fabs(valor26)
valorrespecte26=valorabs26/llistay26[i]
llista_errorsres26.append(valorrespecte26)

valor27=llistay27[i] - llista27[i]
valorabs27=math.fabs(valor27)
valorrespecte27=valorabs27/llistay27[i]
llista_errorsres27.append(valorrespecte27)

valor28=llistay28[i] - llista28[i]
valorabs28=math.fabs(valor28)
valorrespecte28=valorabs28/llistay28[i]
llista_errorsres28.append(valorrespecte28)

valor29=llistay29[i] - llista29[i]
valorabs29=math.fabs(valor29)
valorrespecte29=valorabs29/llistay29[i]
llista_errorsres29.append(valorrespecte29)
```

```python
        valor30=llistay30[i] - llista30[i]
        valorabs30=math.fabs(valor30)
        valorrespecte30=valorabs30/llistay30[i]
        llista_errors30.append(valor30)
        llista_errorsabs30.append(valorabs30)
        llista_errorsres30.append(valorrespecte30)



plt.plot(llista1)
plt.plot(llistay1)
plt.title("Predicció consum a 1 dia")
plt.show()

plt.plot(llista2)
plt.plot(llistay2)
plt.title("Predicció consum a 2 dies")
plt.show()

plt.plot(llista3)
plt.plot(llistay3)
plt.title("Predicció consum a 3 dies")
plt.show()

plt.plot(llista4)
plt.plot(llistay4)
plt.title("Predicció consum a 4 dies")
plt.show()

plt.plot(llista5)
plt.plot(llistay5)
plt.title("Predicció consum a 5 dies")
plt.show()

plt.plot(llista6)
plt.plot(llistay6)
plt.title("Predicció consum a 6 dies")
plt.show()

plt.plot(llista7)
plt.plot(llistay7)
plt.title("Predicció consum a 7 dies")
plt.show()

plt.plot(llista10)
```

```python
plt.plot(llistay10)
plt.title("Predicció consum a 10 dies")
plt.show()

plt.plot(llista15)
plt.plot(llistay15)
plt.title("Predicció consum a 15 dies")
plt.show()

plt.plot(llista20)
plt.plot(llistay20)
plt.title("Predicció consum a 20 dies")
plt.show()

plt.plot(llista25)
plt.plot(llistay25)
plt.title("Predicció consum a 25 dies")
plt.show()

plt.plot(llista30)
plt.plot(llistay30)
plt.title("Predicció consum a 30 dies")
plt.show()


plt.plot(llista_errorsres1)
plt.title("Error percentual a 1 dia")
plt.show()
plt.plot(llista_errorsres2)
plt.title("Error percentual a 2 dies")
plt.show()
plt.plot(llista_errorsres3)
plt.title("Error percentual a 3 dies")
plt.show()
plt.plot(llista_errorsres4)
plt.title("Error percentual a 4 dies")
plt.show()
plt.plot(llista_errorsres5)
plt.title("Error percentual a 5 dies")
plt.show()
plt.plot(llista_errorsres6)
plt.title("Error percentual a 6 dies")
plt.show()
plt.plot(llista_errorsres7)
plt.title("Error percentual a 7 dies")
plt.show()
plt.plot(llista_errorsres10)
plt.title("Error percentual a 10 dies")
```

```python
plt.show()
plt.plot(llista_errorsres15)
plt.title("Error percentual a 15 dies")
plt.show()
plt.plot(llista_errorsres20)
plt.title("Error percentual a 20 dies")
plt.show()
plt.plot(llista_errorsres25)
plt.title("Error percentual a 25 dies")
plt.show()
plt.plot(llista_errorsres30)
plt.title("Error percentual a 30 dies")
plt.show()


error_mitja1=sum(llista_errorsres1)/(len(llista_errorsres1))*100
error_mitja2=sum(llista_errorsres2)/(len(llista_errorsres2))*100
error_mitja3=sum(llista_errorsres3)/(len(llista_errorsres3))*100
error_mitja4=sum(llista_errorsres4)/(len(llista_errorsres4))*100
error_mitja5=sum(llista_errorsres5)/(len(llista_errorsres5))*100
error_mitja6=sum(llista_errorsres6)/(len(llista_errorsres6))*100
error_mitja7=sum(llista_errorsres7)/(len(llista_errorsres7))*100
error_mitja8=sum(llista_errorsres8)/(len(llista_errorsres8))*100
error_mitja9=sum(llista_errorsres9)/(len(llista_errorsres9))*100
error_mitja10=sum(llista_errorsres10)/(len(llista_errorsres10))*100
error_mitja11=sum(llista_errorsres11)/(len(llista_errorsres11))*100
error_mitja12=sum(llista_errorsres12)/(len(llista_errorsres12))*100
error_mitja13=sum(llista_errorsres13)/(len(llista_errorsres13))*100
error_mitja14=sum(llista_errorsres14)/(len(llista_errorsres14))*100

error_mitja15=sum(llista_errorsres15)/(len(llista_errorsres15))*100
error_mitja16=sum(llista_errorsres16)/(len(llista_errorsres16))*100
error_mitja17=sum(llista_errorsres17)/(len(llista_errorsres17))*100
error_mitja18=sum(llista_errorsres18)/(len(llista_errorsres18))*100
error_mitja19=sum(llista_errorsres19)/(len(llista_errorsres19))*100

error_mitja20=sum(llista_errorsres20)/(len(llista_errorsres20))*100
error_mitja21=sum(llista_errorsres21)/(len(llista_errorsres21))*100
error_mitja22=sum(llista_errorsres22)/(len(llista_errorsres22))*100
error_mitja23=sum(llista_errorsres23)/(len(llista_errorsres23))*100
error_mitja24=sum(llista_errorsres24)/(len(llista_errorsres24))*100
error_mitja25=sum(llista_errorsres25)/(len(llista_errorsres25))*100
error_mitja26=sum(llista_errorsres26)/(len(llista_errorsres26))*100
error_mitja27=sum(llista_errorsres27)/(len(llista_errorsres27))*100
error_mitja28=sum(llista_errorsres28)/(len(llista_errorsres28))*100
error_mitja29=sum(llista_errorsres29)/(len(llista_errorsres29))*100
error_mitja30=sum(llista_errorsres30)/(len(llista_errorsres30))*100
```

```python
print("L'error mitjà a 1 dia és de {} % " .format(error_mitja1))
print("L'error mitjà a 2 dies és de {} % " .format(error_mitja2))
print("L'error mitjà a 3 dies és de {} % " .format(error_mitja3))
print("L'error mitjà a 4 dies és de {} % " .format(error_mitja4))
print("L'error mitjà a 5 dies és de {} % " .format(error_mitja5))
print("L'error mitjà a 6 dies és de {} % " .format(error_mitja6))
print("L'error mitjà a 7 dies és de {} % " .format(error_mitja7))
print("L'error mitjà a 10 dies és de {} % " .format(error_mitja10))
print("L'error mitjà a 15 dies és de {} % " .format(error_mitja15))
print("L'error mitjà a 20 dies és de {} % " .format(error_mitja20))
print("L'error mitjà a 25 dies és de {} % " .format(error_mitja25))
print("L'error mitjà a 30 dies és de {} % " .format(error_mitja30))
```



Predicció consum a 1 dia
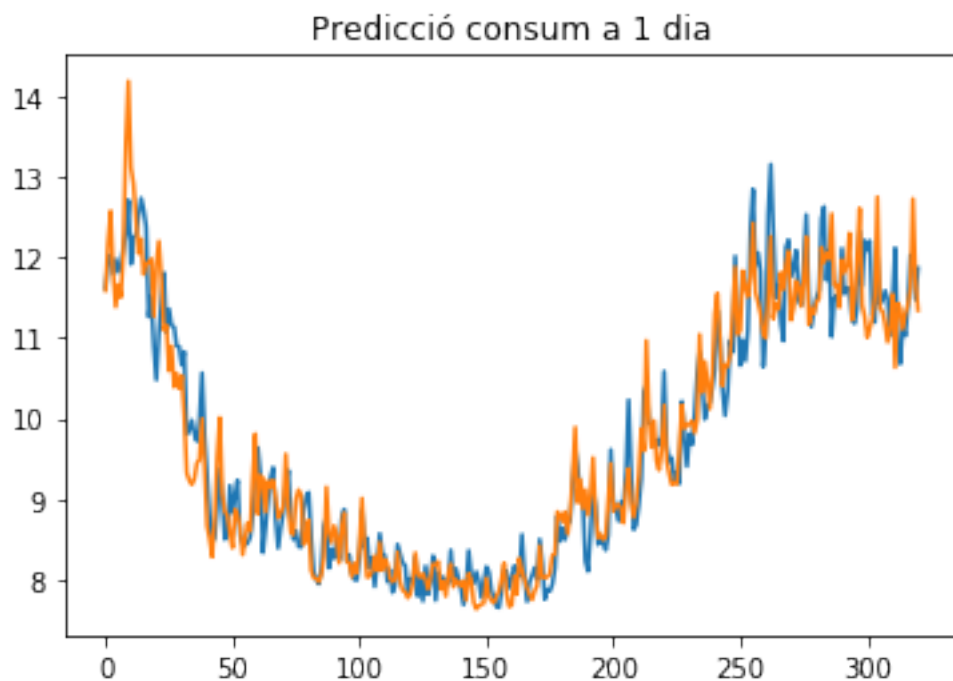
## Predicció consum a 2 dies
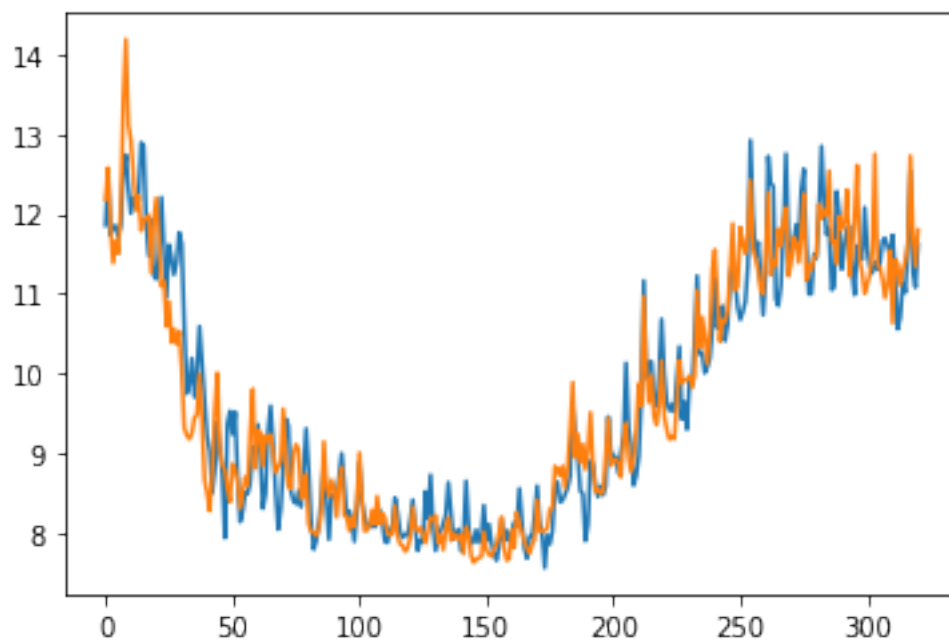


## Predicció consum a 3 dies
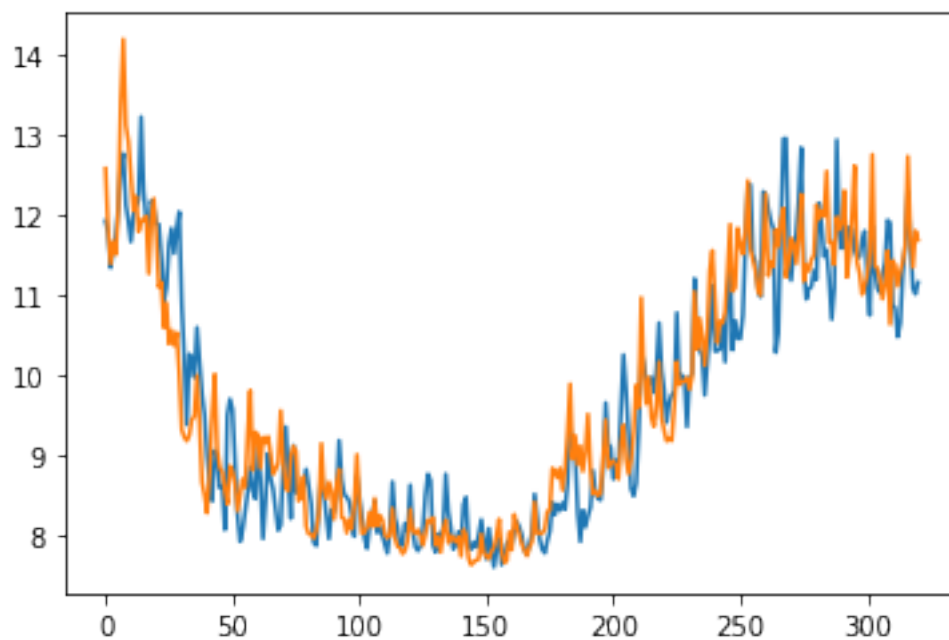
Predicció consum a 4 dies
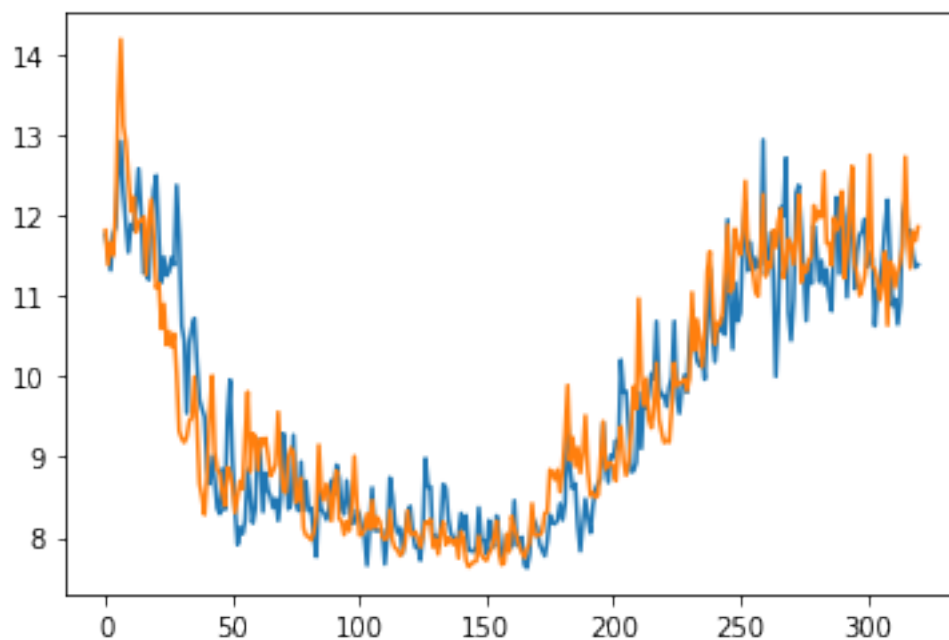


Predicció consum a 5 dies
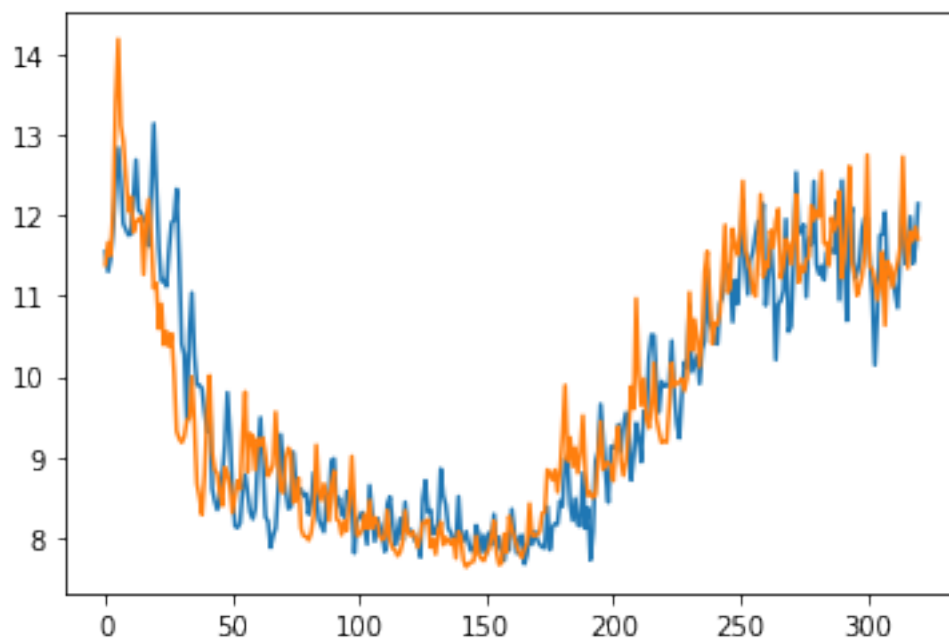
Predicció consum a 6 dies
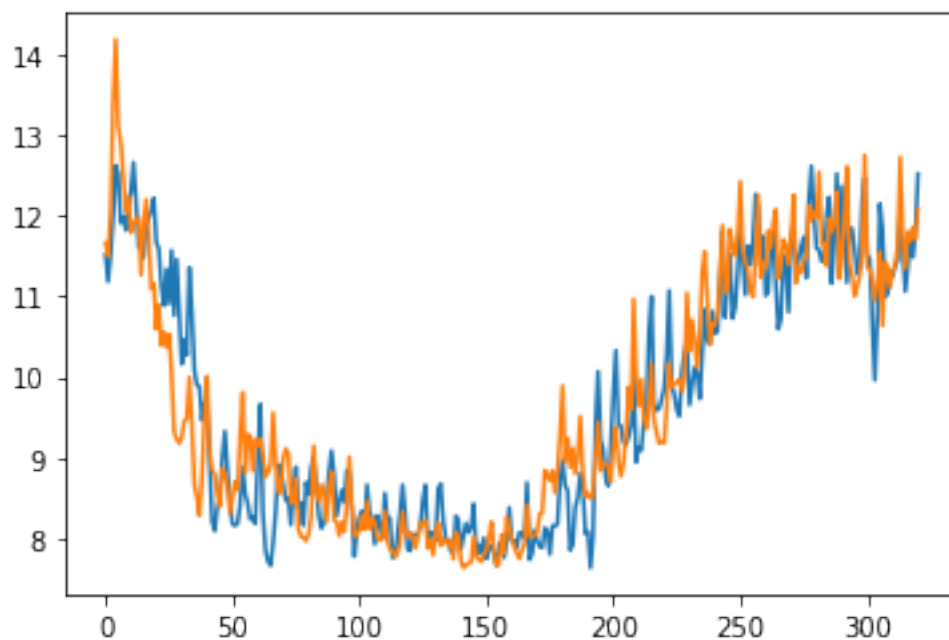


Predicció consum a 7 dies
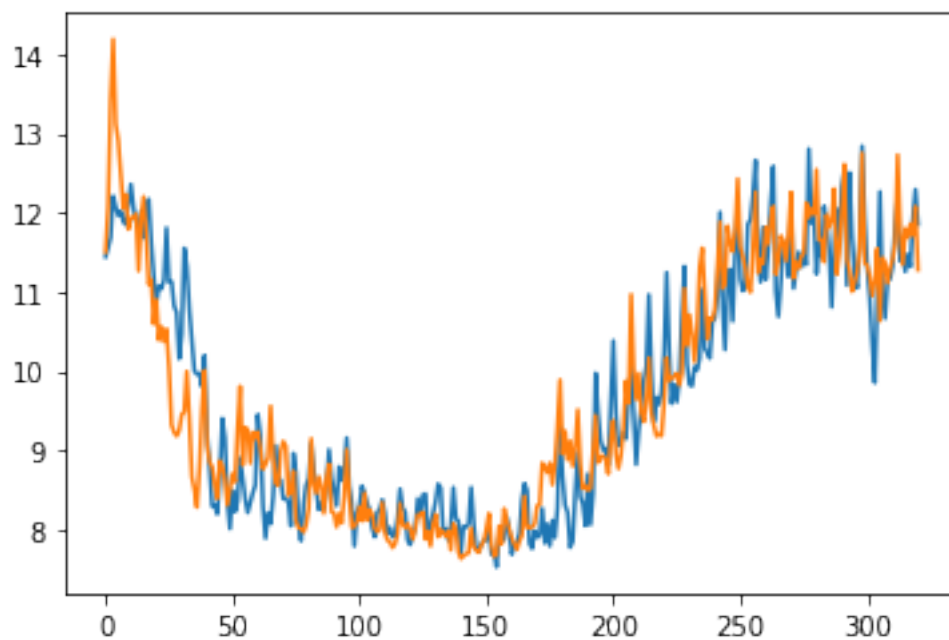
Predicció consum a 10 dies
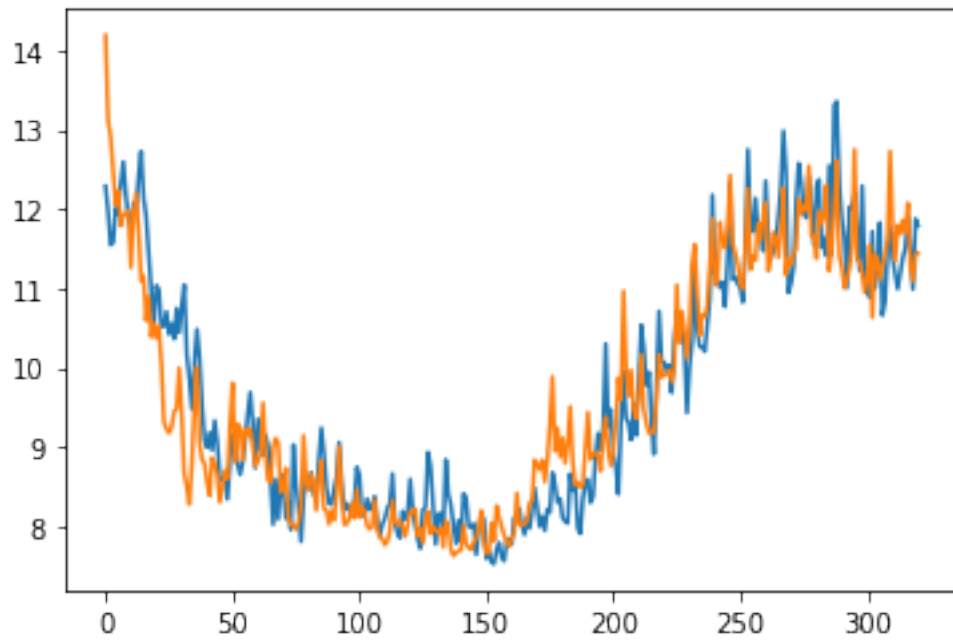


Predicció consum a 15 dies
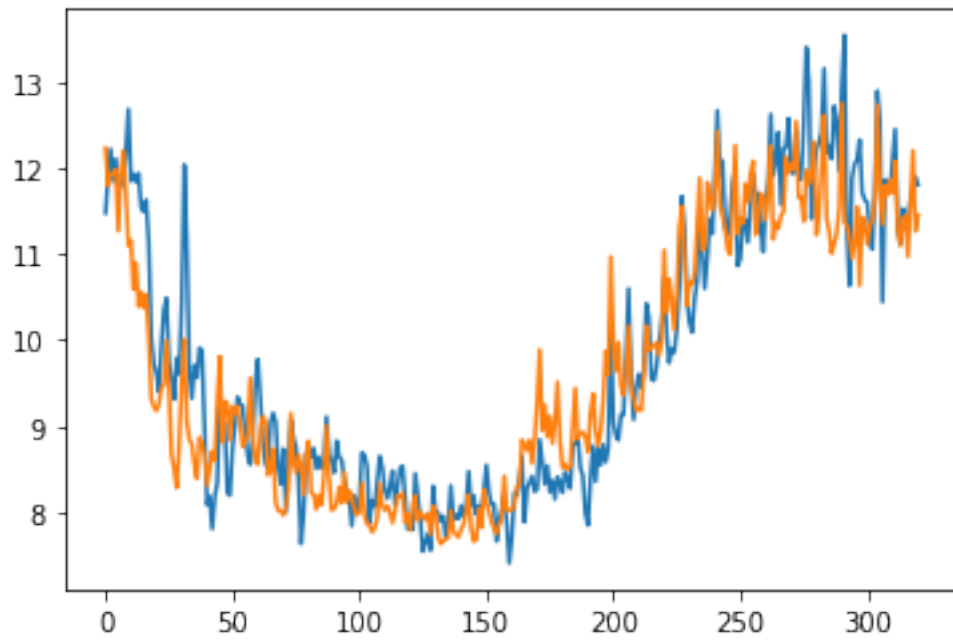
Predicció consum a 20 dies
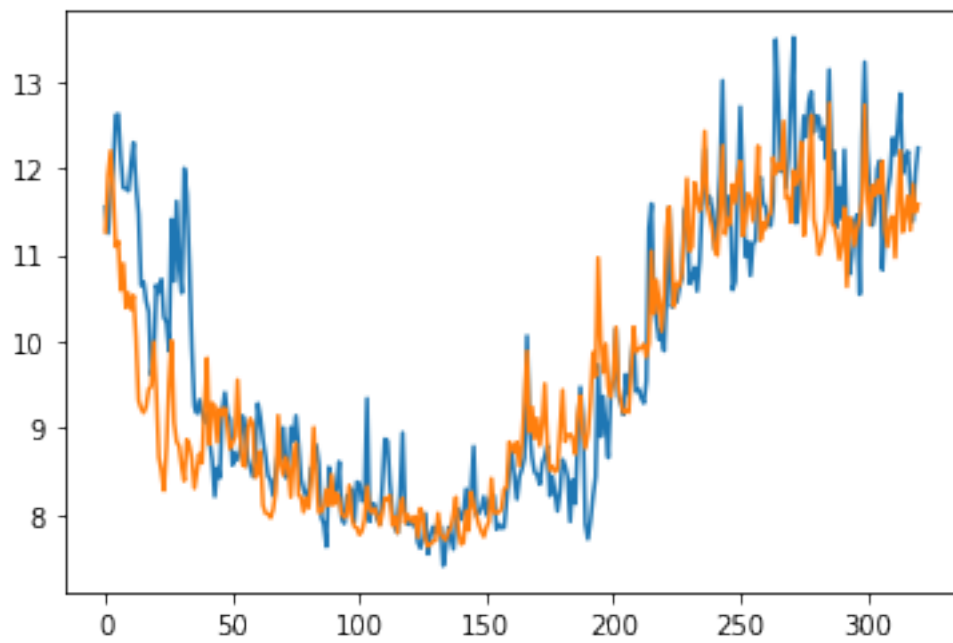


Predicció consum a 25 dies
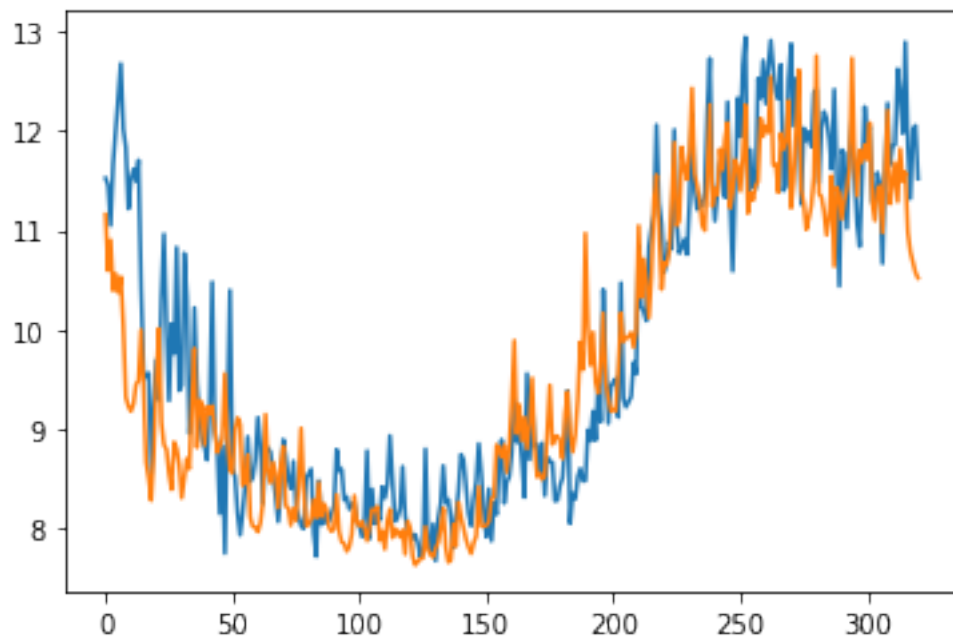
Predicció consum a 30 dies
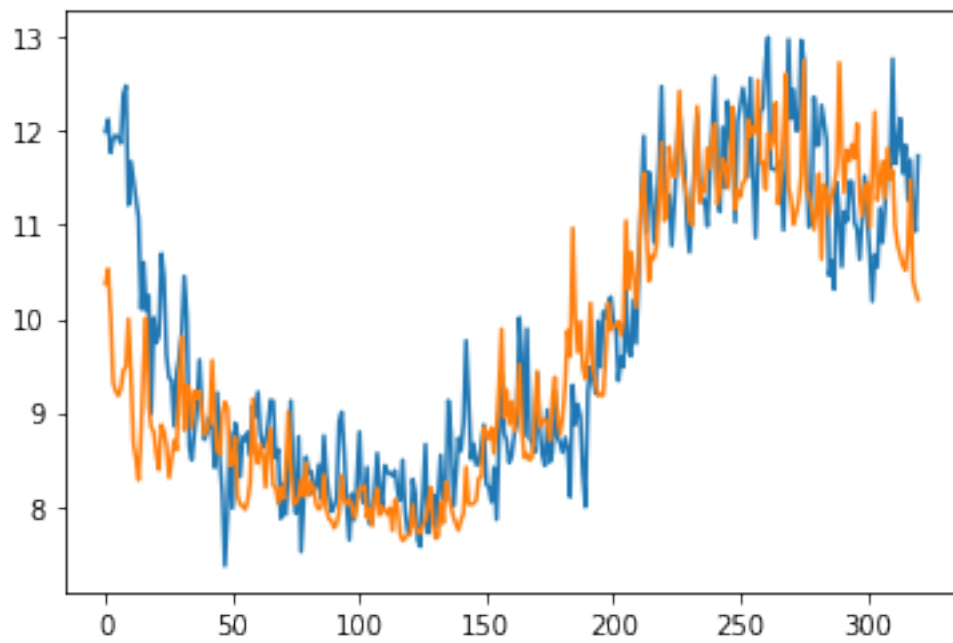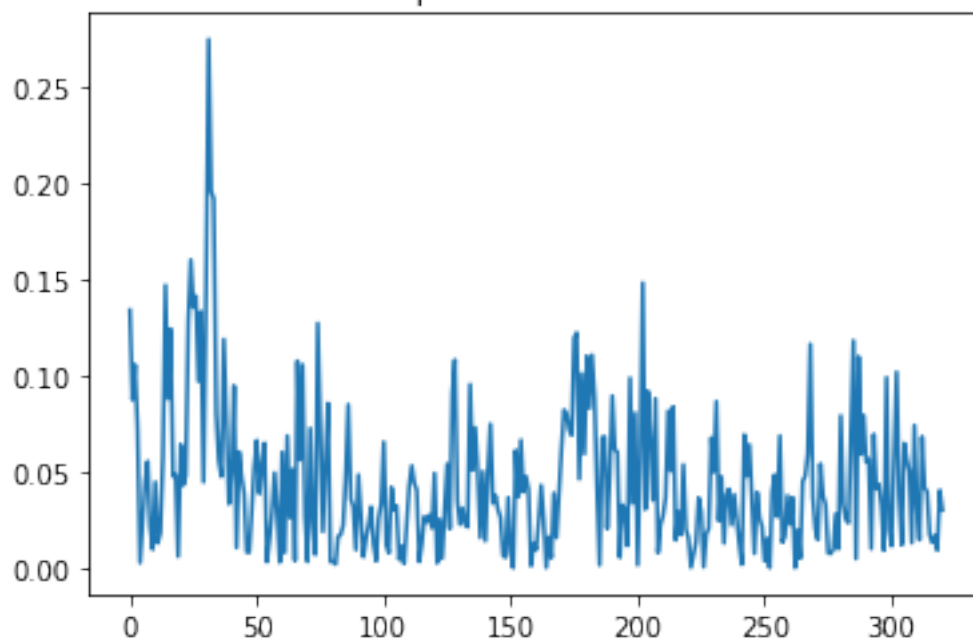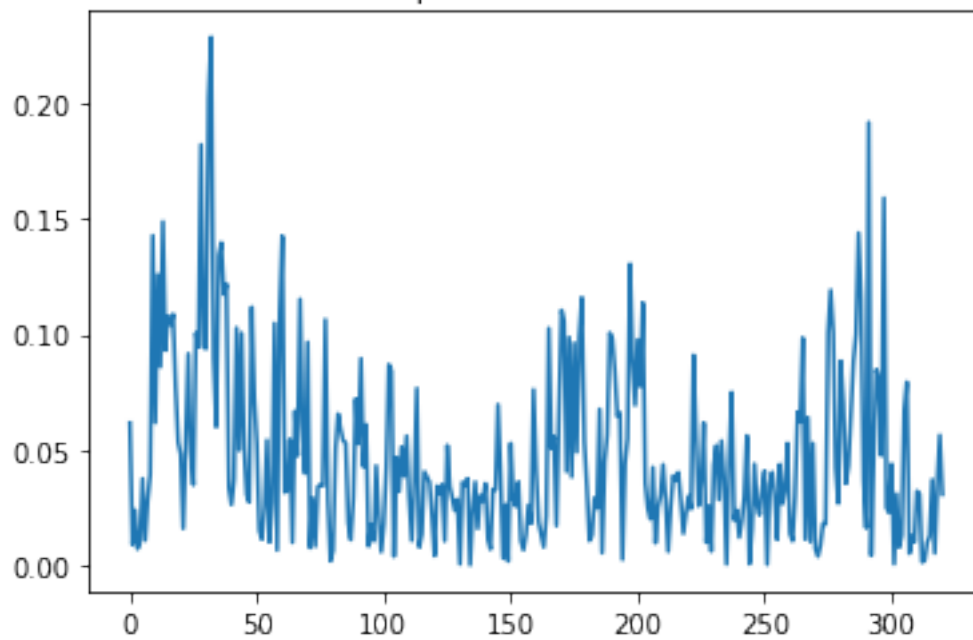


Error percentual a 1 dia

Error percentual a 2 dies



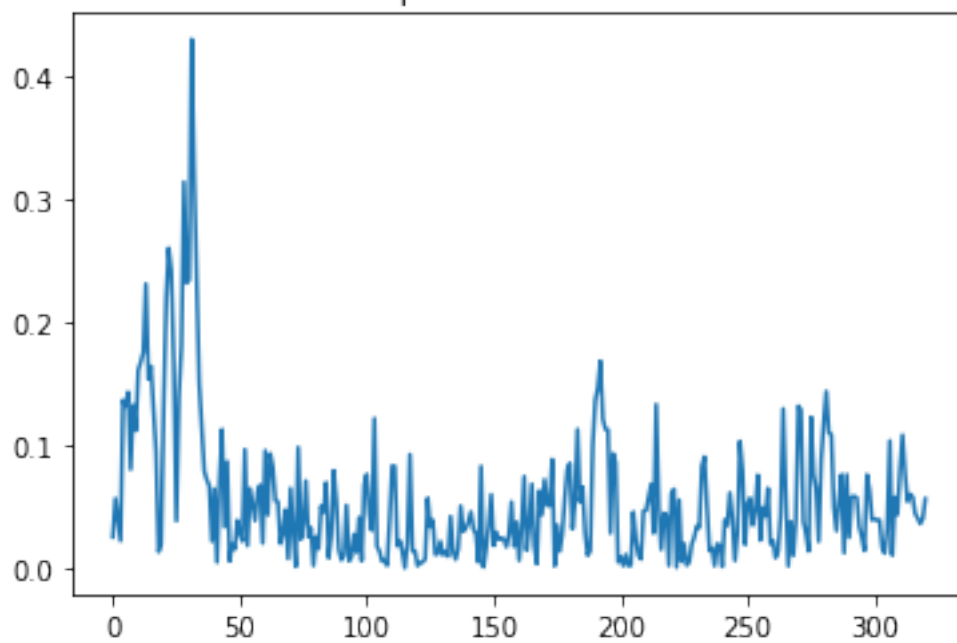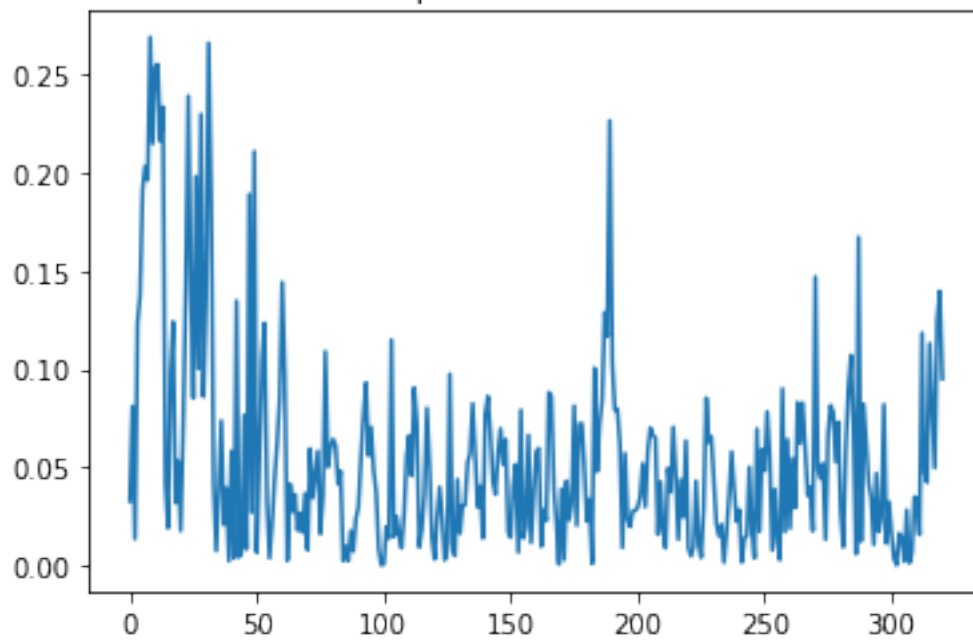Error percentual a 3 dies
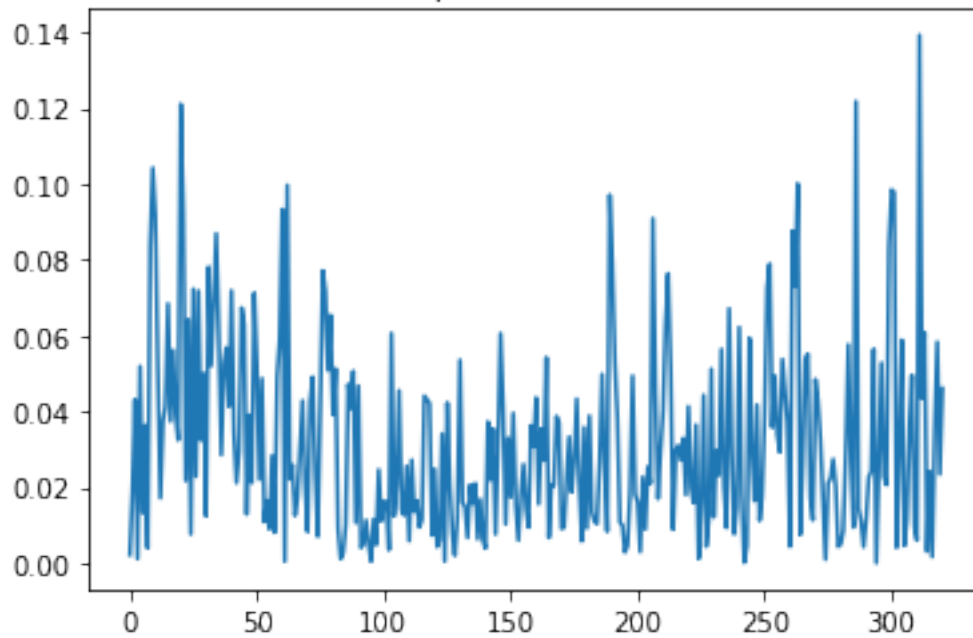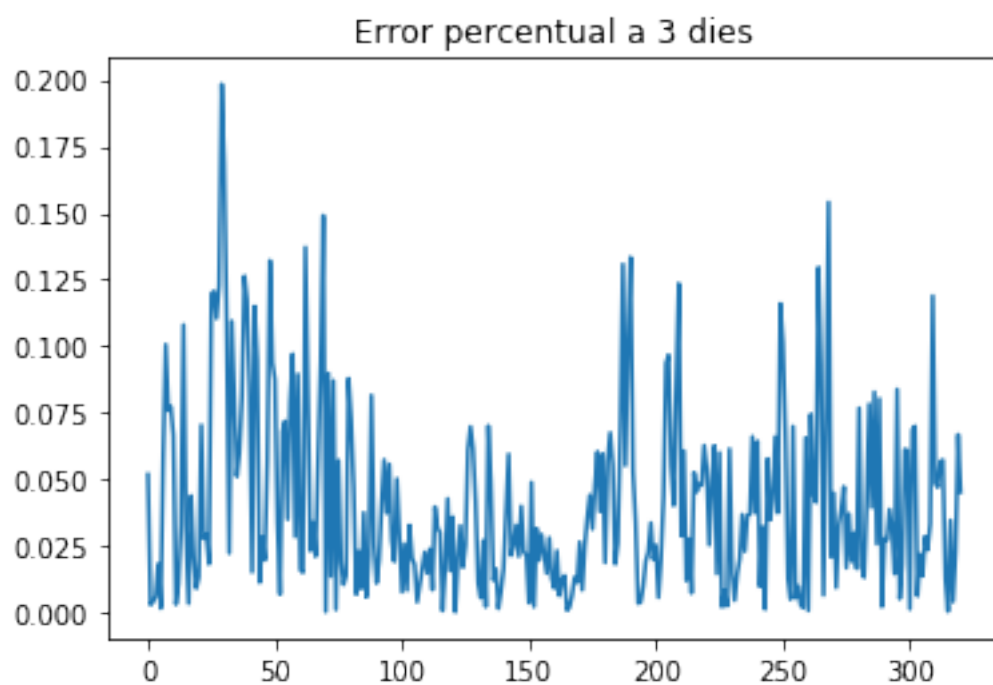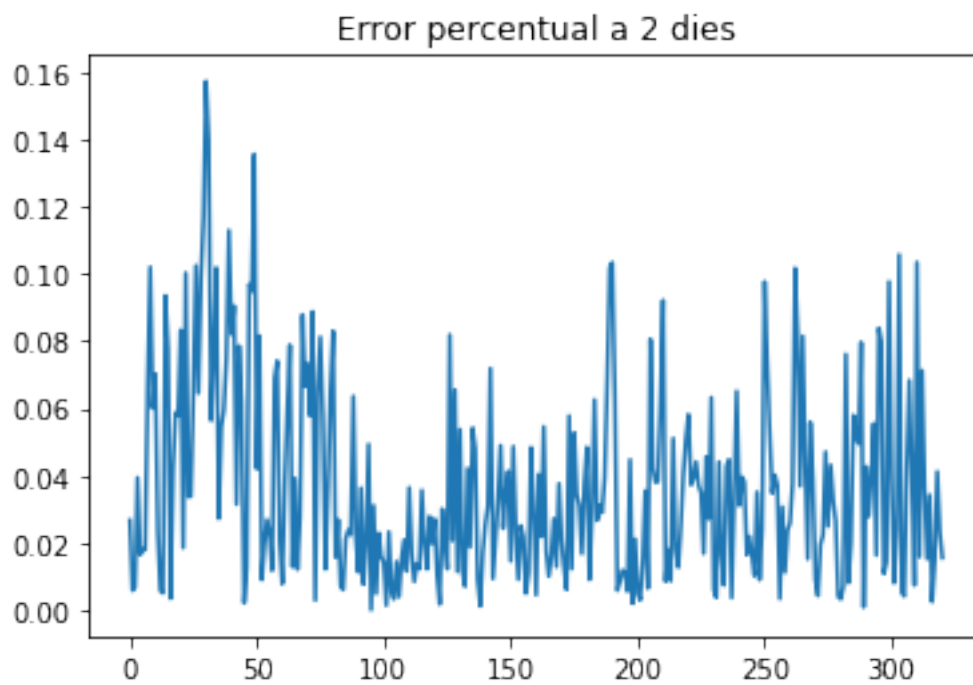
## Error percentual a 4 dies
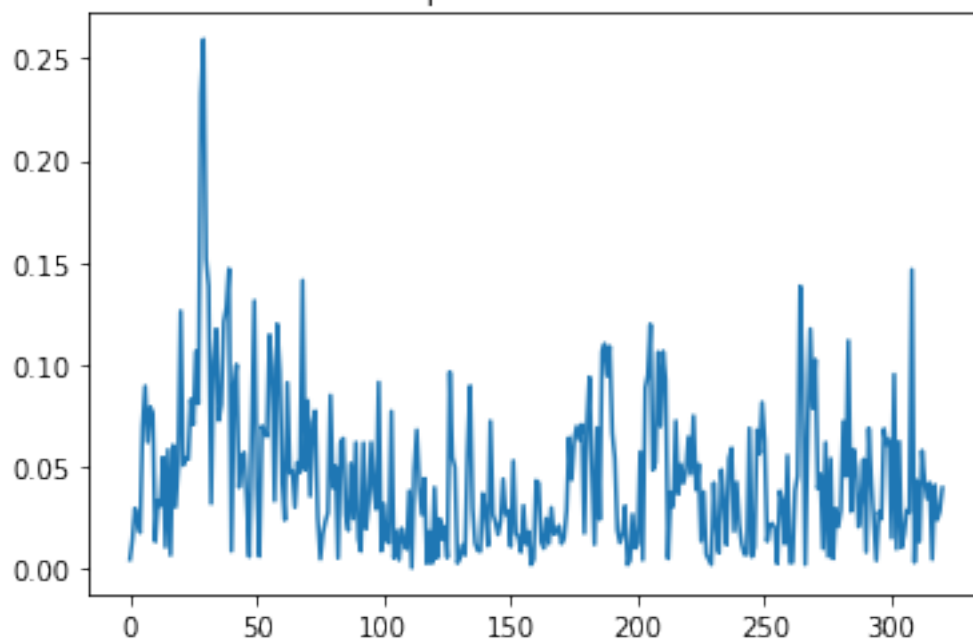


## Error percentual a 5 dies

Error percentual a 6 dies



Error percentual a 7 dies
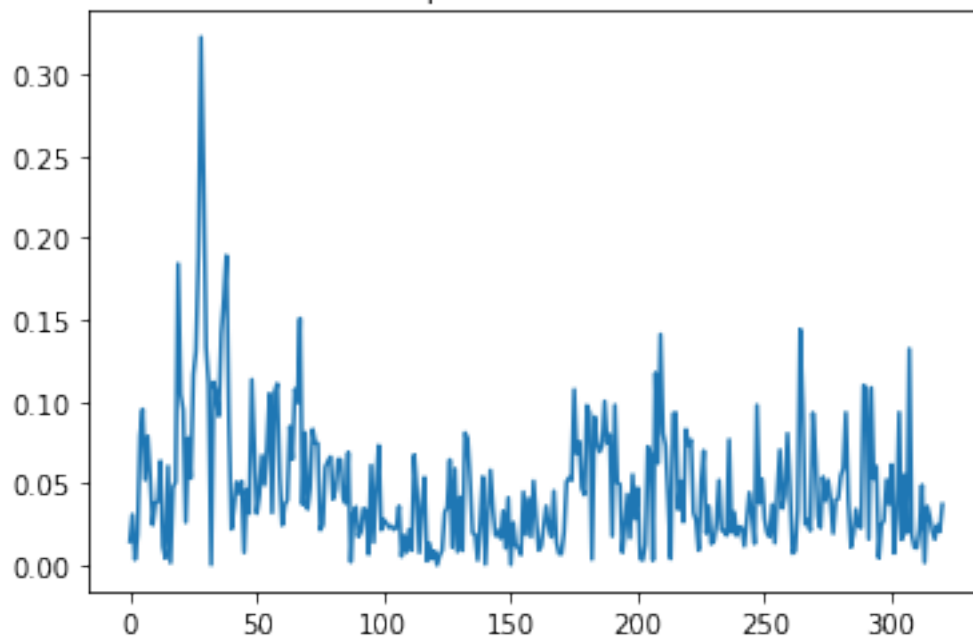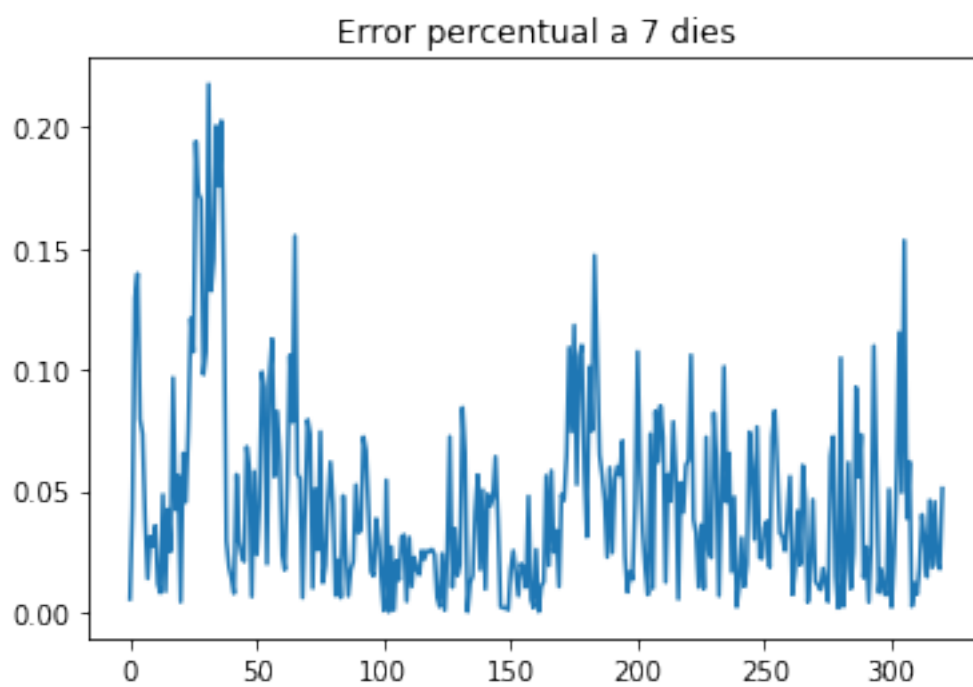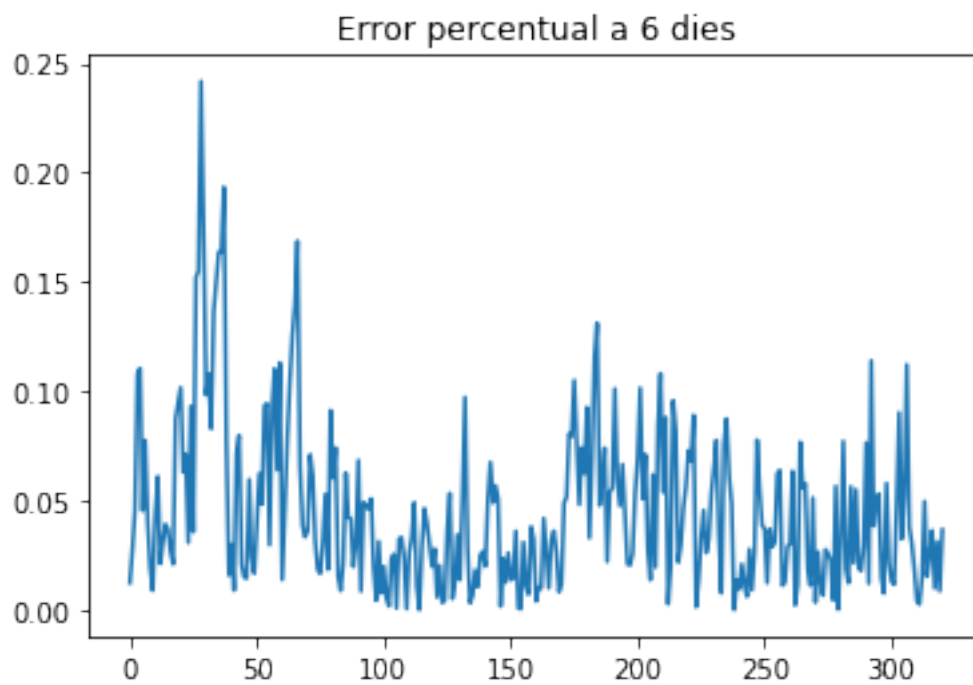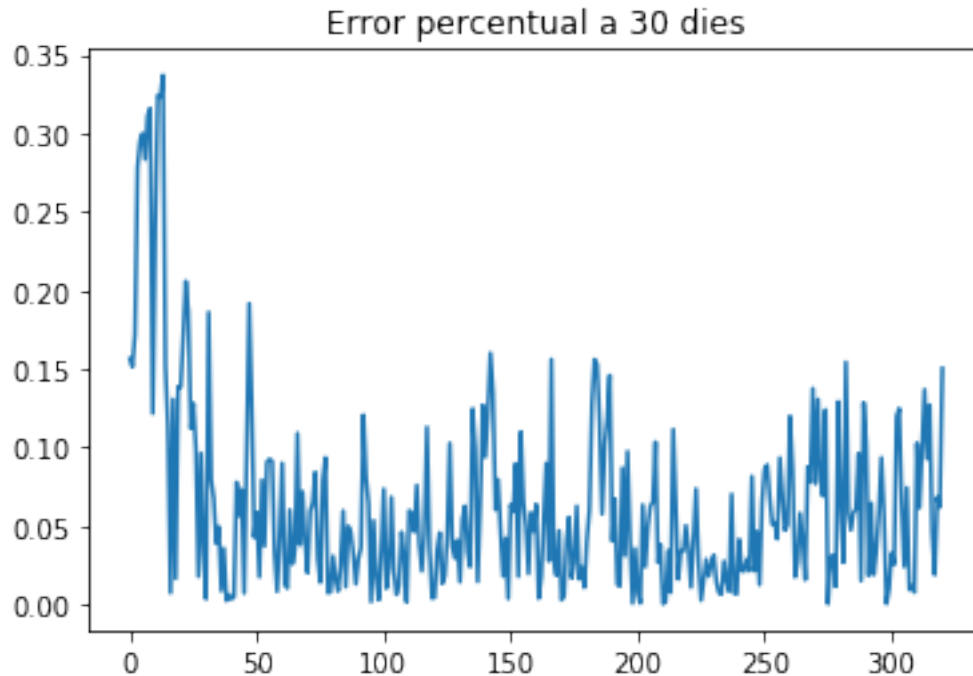
Error percentual a 10 dies



Error percentual a 15 dies

Error percentual a 20 dies



Error percentual a 25 dies

Error percentual a 30 dies

L'error mitjà a 1 dia és de 3.201301904539095 %
L'error mitjà a 2 dies és de 3.695479031626149 %
L'error mitjà a 3 dies és de 4.13242978174084 %
L'error mitjà a 4 dies és de 4.4861972085003625 %
L'error mitjà a 5 dies és de 4.741936371808464 %
L'error mitjà a 6 dies és de 4.515537597028588 %
L'error mitjà a 7 dies és de 4.502326551129249 %
L'error mitjà a 10 dies és de 4.492387138130774 %
L'error mitjà a 15 dies és de 4.736990140327543 %
L'error mitjà a 20 dies és de 5.587884468908786 %
L'error mitjà a 25 dies és de 5.479946538037582 %
L'error mitjà a 30 dies és de 6.337070606244632 %


In [45]: (error_mitja1+error_mitja2+error_mitja3+error_mitja4+error_mitja5+error_mitja6+error_r

Out[45]: 4.956957474043554

In [ ]:

269