MM3a
_Xarxa_walkforard_normalitzat_multivariate2_MULTISTEP60_tempm
walkforwardaugment-Copy1

December 21, 2019

1 Xarxa neuronal

```
In [1]: 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

```
In [2]: daily=pd.read_csv('C:/Users/Laura/Desktop/Smart meters London/workspace R/Dades netes/
        daily.head(5)
```

```
Out[2]:         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 [3]: *#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[3]:   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
        0   2.18   0.93
        1   7.01   0.89
        2   4.84   0.79
        3   4.69   0.81
        4   2.94   0.72

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

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

```
In [4]: 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)
```

3

```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['y+31']=daily_dia['energy_sum'].shift(-31)
daily_dia['y+32']=daily_dia['energy_sum'].shift(-32)
daily_dia['y+33']=daily_dia['energy_sum'].shift(-33)
daily_dia['y+34']=daily_dia['energy_sum'].shift(-34)
daily_dia['y+35']=daily_dia['energy_sum'].shift(-35)
daily_dia['y+36']=daily_dia['energy_sum'].shift(-36)
daily_dia['y+37']=daily_dia['energy_sum'].shift(-37)
daily_dia['y+38']=daily_dia['energy_sum'].shift(-38)
daily_dia['y+39']=daily_dia['energy_sum'].shift(-39)
daily_dia['y+40']=daily_dia['energy_sum'].shift(-40)
daily_dia['y+41']=daily_dia['energy_sum'].shift(-41)
daily_dia['y+42']=daily_dia['energy_sum'].shift(-42)
daily_dia['y+43']=daily_dia['energy_sum'].shift(-43)
daily_dia['y+44']=daily_dia['energy_sum'].shift(-44)
daily_dia['y+45']=daily_dia['energy_sum'].shift(-45)
daily_dia['y+46']=daily_dia['energy_sum'].shift(-46)
daily_dia['y+47']=daily_dia['energy_sum'].shift(-47)
daily_dia['y+48']=daily_dia['energy_sum'].shift(-48)
daily_dia['y+49']=daily_dia['energy_sum'].shift(-49)
daily_dia['y+50']=daily_dia['energy_sum'].shift(-50)
daily_dia['y+51']=daily_dia['energy_sum'].shift(-51)
daily_dia['y+52']=daily_dia['energy_sum'].shift(-52)
daily_dia['y+53']=daily_dia['energy_sum'].shift(-53)
daily_dia['y+54']=daily_dia['energy_sum'].shift(-54)
daily_dia['y+55']=daily_dia['energy_sum'].shift(-55)
daily_dia['y+56']=daily_dia['energy_sum'].shift(-56)
daily_dia['y+57']=daily_dia['energy_sum'].shift(-57)
daily_dia['y+58']=daily_dia['energy_sum'].shift(-58)
daily_dia['y+59']=daily_dia['energy_sum'].shift(-59)
daily_dia['y+60']=daily_dia['energy_sum'].shift(-60)


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)
```

```python
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)
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

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
      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        y+1        y+2        y+3  \
0                       2.18       0.93   8.536480   9.499781  10.267707
1                       7.01       0.89   9.499781  10.267707  10.850805
2                       4.84       0.79  10.267707  10.850805   9.103382
3                       4.69       0.81  10.850805   9.103382   9.274873
4                       2.94       0.72   9.103382   9.274873   8.813513
5                       1.31       0.86   9.274873   8.813513   9.227707
6                       3.39       0.82   8.813513   9.227707  10.145910
7                       3.34       0.78   9.227707  10.145910  10.780273
8                       5.29       0.82  10.145910  10.780273  12.163127
9                       0.46       0.87  10.780273  12.163127  10.609714
10                      4.71       0.79  12.163127  10.609714  11.673417
11                      1.03       0.82  10.609714  11.673417  10.889362
12                     -1.69       0.77  11.673417  10.889362  11.525150
13                     -1.61       0.83  10.889362  11.525150  11.759837
14                      0.94       0.68  11.525150  11.759837  12.633801
15                      0.63       0.81  11.759837  12.633801  13.749174
16                     -1.42       0.71  12.633801  13.749174  11.951958
17                     -3.42       0.81  13.749174  11.951958  11.957446
18                      0.11       0.88  11.951958  11.957446  12.392776
19                     -0.64       0.84  11.957446  12.392776  12.307079
20                      0.22       0.75  12.392776  12.307079  13.376080
21                      0.78       0.79  12.307079  13.376080  13.511968
22                      1.07       0.77  13.376080  13.511968  14.732271
23                     -2.65       0.88  13.511968  14.732271  13.774471
24                     -3.56       0.86  14.732271  13.774471  12.709106
25                     -4.12       0.84  13.774471  12.709106  12.148570
26                     -3.67       0.94  12.709106  12.148570  11.839403
27                      1.68       0.81  12.148570  11.839403  12.254989
28                      3.84       0.94  11.839403  12.254989  13.065317
```

29	5.37	0.87	12.254989	13.065317	12.949429
..	...	...	...	...	...
800	0.18	0.90	11.685169	11.857957	11.710582
801	0.61	0.91	11.857957	11.710582	12.078164
802	0.29	0.91	11.710582	12.078164	11.280011
803	1.10	0.76	12.078164	11.280011	11.095584
804	3.21	0.72	11.280011	11.095584	11.415105
805	1.96	0.79	11.095584	11.415105	11.445403
806	1.12	0.75	11.415105	11.445403	10.972318
807	1.03	0.77	11.445403	10.972318	11.569300
808	1.96	0.82	10.972318	11.569300	12.202967
809	-0.86	0.79	11.569300	12.202967	11.264175
810	2.19	0.77	12.202967	11.264175	11.452649
811	1.38	0.66	11.264175	11.452649	11.679099
812	0.89	0.84	11.452649	11.679099	11.285737
813	-0.57	0.76	11.679099	11.285737	11.816914
814	-1.20	0.75	11.285737	11.816914	11.490470
815	0.05	0.68	11.816914	11.490470	11.582159
816	0.45	0.81	11.490470	11.582159	10.979566
817	1.77	0.69	11.582159	10.979566	10.781898
818	-1.03	0.76	10.979566	10.781898	10.674624
819	2.84	0.83	10.781898	10.674624	10.573835
820	3.83	0.87	10.674624	10.573835	10.518126
821	2.65	0.87	10.573835	10.518126	10.776242
822	3.95	0.84	10.518126	10.776242	11.480411
823	0.19	0.72	10.776242	11.480411	10.411403
824	1.59	0.71	11.480411	10.411403	10.294997
825	5.53	0.76	10.411403	10.294997	10.202945
826	5.52	0.74	10.294997	10.202945	10.356350
827	3.89	0.78	10.202945	10.356350	NaN
828	1.67	0.73	10.356350	NaN	NaN
829	1.41	0.74	NaN	NaN	NaN

	y+4	...	humidity(t-5)	humidity(t-6)	humidity(t-7) \
0	10.850805	...	NaN	NaN	NaN
1	9.103382	...	NaN	NaN	NaN
2	9.274873	...	NaN	NaN	NaN
3	8.813513	...	NaN	NaN	NaN
4	9.227707	...	NaN	NaN	NaN
5	10.145910	...	0.93	NaN	NaN
6	10.780273	...	0.89	0.93	NaN
7	12.163127	...	0.79	0.89	0.93
8	10.609714	...	0.81	0.79	0.89
9	11.673417	...	0.72	0.81	0.79
10	10.889362	...	0.86	0.72	0.81
11	11.525150	...	0.82	0.86	0.72
12	11.759837	...	0.78	0.82	0.86
13	12.633801	...	0.82	0.78	0.82

14	13.749174	...	0.87	0.82	0.78
15	11.951958	...	0.79	0.87	0.82
16	11.957446	...	0.82	0.79	0.87
17	12.392776	...	0.77	0.82	0.79
18	12.307079	...	0.83	0.77	0.82
19	13.376080	...	0.68	0.83	0.77
20	13.511968	...	0.81	0.68	0.83
21	14.732271	...	0.71	0.81	0.68
22	13.774471	...	0.81	0.71	0.81
23	12.709106	...	0.88	0.81	0.71
24	12.148570	...	0.84	0.88	0.81
25	11.839403	...	0.75	0.84	0.88
26	12.254989	...	0.79	0.75	0.84
27	13.065317	...	0.77	0.79	0.75
28	12.949429	...	0.88	0.77	0.79
29	11.065577	...	0.86	0.88	0.77
..	...	...	...	...	...
800	12.078164	...	0.83	0.82	0.87
801	11.280011	...	0.83	0.83	0.82
802	11.095584	...	0.79	0.83	0.83
803	11.415105	...	0.79	0.79	0.83
804	11.445403	...	0.83	0.79	0.79
805	10.972318	...	0.90	0.83	0.79
806	11.569300	...	0.91	0.90	0.83
807	12.202967	...	0.91	0.91	0.90
808	11.264175	...	0.76	0.91	0.91
809	11.452649	...	0.72	0.76	0.91
810	11.679099	...	0.79	0.72	0.76
811	11.285737	...	0.75	0.79	0.72
812	11.816914	...	0.77	0.75	0.79
813	11.490470	...	0.82	0.77	0.75
814	11.582159	...	0.79	0.82	0.77
815	10.979566	...	0.77	0.79	0.82
816	10.781898	...	0.66	0.77	0.79
817	10.674624	...	0.84	0.66	0.77
818	10.573835	...	0.76	0.84	0.66
819	10.518126	...	0.75	0.76	0.84
820	10.776242	...	0.68	0.75	0.76
821	11.480411	...	0.81	0.68	0.75
822	10.411403	...	0.69	0.81	0.68
823	10.294997	...	0.76	0.69	0.81
824	10.202945	...	0.83	0.76	0.69
825	10.356350	...	0.87	0.83	0.76
826	NaN	...	0.87	0.87	0.83
827	NaN	...	0.84	0.87	0.87
828	NaN	...	0.72	0.84	0.87
829	NaN	...	0.71	0.72	0.84

	humidity(t-8)	humidity(t-9)	humidity(t-10)	humidity(t-11) \
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	NaN	NaN	NaN	NaN
6	NaN	NaN	NaN	NaN
7	NaN	NaN	NaN	NaN
8	0.93	NaN	NaN	NaN
9	0.89	0.93	NaN	NaN
10	0.79	0.89	0.93	NaN
11	0.81	0.79	0.89	0.93
12	0.72	0.81	0.79	0.89
13	0.86	0.72	0.81	0.79
14	0.82	0.86	0.72	0.81
15	0.78	0.82	0.86	0.72
16	0.82	0.78	0.82	0.86
17	0.87	0.82	0.78	0.82
18	0.79	0.87	0.82	0.78
19	0.82	0.79	0.87	0.82
20	0.77	0.82	0.79	0.87
21	0.83	0.77	0.82	0.79
22	0.68	0.83	0.77	0.82
23	0.81	0.68	0.83	0.77
24	0.71	0.81	0.68	0.83
25	0.81	0.71	0.81	0.68
26	0.88	0.81	0.71	0.81
27	0.84	0.88	0.81	0.71
28	0.75	0.84	0.88	0.81
29	0.79	0.75	0.84	0.88
..	...	...	...	...
800	0.89	0.89	0.80	0.83
801	0.87	0.89	0.89	0.80
802	0.82	0.87	0.89	0.89
803	0.83	0.82	0.87	0.89
804	0.83	0.83	0.82	0.87
805	0.79	0.83	0.83	0.82
806	0.79	0.79	0.83	0.83
807	0.83	0.79	0.79	0.83
808	0.90	0.83	0.79	0.79
809	0.91	0.90	0.83	0.79
810	0.91	0.91	0.90	0.83
811	0.76	0.91	0.91	0.90
812	0.72	0.76	0.91	0.91
813	0.79	0.72	0.76	0.91
814	0.75	0.79	0.72	0.76
815	0.77	0.75	0.79	0.72

816	0.82	0.77	0.75	0.79
817	0.79	0.82	0.77	0.75
818	0.77	0.79	0.82	0.77
819	0.66	0.77	0.79	0.82
820	0.84	0.66	0.77	0.79
821	0.76	0.84	0.66	0.77
822	0.75	0.76	0.84	0.66
823	0.68	0.75	0.76	0.84
824	0.81	0.68	0.75	0.76
825	0.69	0.81	0.68	0.75
826	0.76	0.69	0.81	0.68
827	0.83	0.76	0.69	0.81
828	0.87	0.83	0.76	0.69
829	0.87	0.87	0.83	0.76

	humidity(t-12)	humidity(t-13)	humidity(t-14)
0	NaN	NaN	NaN
1	NaN	NaN	NaN
2	NaN	NaN	NaN
3	NaN	NaN	NaN
4	NaN	NaN	NaN
5	NaN	NaN	NaN
6	NaN	NaN	NaN
7	NaN	NaN	NaN
8	NaN	NaN	NaN
9	NaN	NaN	NaN
10	NaN	NaN	NaN
11	NaN	NaN	NaN
12	0.93	NaN	NaN
13	0.89	0.93	NaN
14	0.79	0.89	0.93
15	0.81	0.79	0.89
16	0.72	0.81	0.79
17	0.86	0.72	0.81
18	0.82	0.86	0.72
19	0.78	0.82	0.86
20	0.82	0.78	0.82
21	0.87	0.82	0.78
22	0.79	0.87	0.82
23	0.82	0.79	0.87
24	0.77	0.82	0.79
25	0.83	0.77	0.82
26	0.68	0.83	0.77
27	0.81	0.68	0.83
28	0.71	0.81	0.68
29	0.81	0.71	0.81
..	...	...	...
800	0.87	0.83	0.90

```
801             0.83            0.87            0.83
802             0.80            0.83            0.87
803             0.89            0.80            0.83
804             0.89            0.89            0.80
805             0.87            0.89            0.89
806             0.82            0.87            0.89
807             0.83            0.82            0.87
808             0.83            0.83            0.82
809             0.79            0.83            0.83
810             0.79            0.79            0.83
811             0.83            0.79            0.79
812             0.90            0.83            0.79
813             0.91            0.90            0.83
814             0.91            0.91            0.90
815             0.76            0.91            0.91
816             0.72            0.76            0.91
817             0.79            0.72            0.76
818             0.75            0.79            0.72
819             0.77            0.75            0.79
820             0.82            0.77            0.75
821             0.79            0.82            0.77
822             0.77            0.79            0.82
823             0.66            0.77            0.79
824             0.84            0.66            0.77
825             0.76            0.84            0.66
826             0.75            0.76            0.84
827             0.68            0.75            0.76
828             0.81            0.68            0.75
829             0.69            0.81            0.68

[830 rows x 122 columns]
```

In [5]: *#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[5]:   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 ... humidity(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

12

```
3  10.145910  10.780273  12.163127  10.609714  ...        NaN
4  10.780273  12.163127  10.609714  11.673417  ...        NaN

   humidity(t-6)  humidity(t-7)  humidity(t-8)  humidity(t-9)  humidity(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

   humidity(t-11)  humidity(t-12)  humidity(t-13)  humidity(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 117 columns]
```

In [6]: #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[6]:
```
    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  ...  humidity(t-5)  \
14  11.957446  12.392776  12.307079  13.376080  ...           0.87
15  12.392776  12.307079  13.376080  13.511968  ...           0.79
16  12.307079  13.376080  13.511968  14.732271  ...           0.82
17  13.376080  13.511968  14.732271  13.774471  ...           0.77
18  13.511968  14.732271  13.774471  12.709106  ...           0.83

    humidity(t-6)  humidity(t-7)  humidity(t-8)  humidity(t-9)  \
14           0.82           0.78           0.82           0.86
15           0.87           0.82           0.78           0.82
16           0.79           0.87           0.82           0.78
17           0.82           0.79           0.87           0.82
18           0.77           0.82           0.79           0.87

    humidity(t-10)  humidity(t-11)  humidity(t-12)  humidity(t-13)  \
14            0.72            0.81            0.79            0.89
15            0.86            0.72            0.81            0.79
```

```
16          0.82          0.86          0.72          0.81
17          0.78          0.82          0.86          0.72
18          0.82          0.78          0.82          0.86

      humidity(t-14)
14            0.93
15            0.89
16            0.79
17            0.81
18            0.72

[5 rows x 117 columns]
```

In [7]: 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[7]:     energy_sum         y+1         y+2         y+3         y+4         y+5  \
        765   12.542847  11.655859  11.661978  11.379026  11.973593  11.813610
        766   11.655859  11.661978  11.379026  11.973593  11.813610  11.913917
        767   11.661978  11.379026  11.973593  11.813610  11.913917  12.302586
        768   11.379026  11.973593  11.813610  11.913917  12.302586  11.223347
        769   11.973593  11.813610  11.913917  12.302586  11.223347  11.489046

                  y+6         y+7         y+8         y+9  ...  humidity(t-5)  \
        765  11.913917  12.302586  11.223347  11.489046  ...           0.79
        766  12.302586  11.223347  11.489046  11.995096  ...           0.86
        767  11.223347  11.489046  11.995096  12.611274  ...           0.73
        768  11.489046  11.995096  12.611274  11.408516  ...           0.84
        769  11.995096  12.611274  11.408516  11.268234  ...           0.81

             humidity(t-6)  humidity(t-7)  humidity(t-8)  humidity(t-9)  \
        765           0.78           0.88           0.90           0.89
        766           0.79           0.78           0.88           0.90
        767           0.86           0.79           0.78           0.88
        768           0.73           0.86           0.79           0.78
        769           0.84           0.73           0.86           0.79

             humidity(t-10)  humidity(t-11)  humidity(t-12)  humidity(t-13)  \
        765            0.91            0.81            0.85            0.94
        766            0.89            0.91            0.81            0.85
        767            0.90            0.89            0.91            0.81
        768            0.88            0.90            0.89            0.91
        769            0.78            0.88            0.90            0.89

             humidity(t-14)
        765            0.93
        766            0.94
        767            0.85
```

```
        768            0.81
        769            0.91

        [5 rows x 117 columns]

In [8]: len(daily_dia)

Out[8]: 756

In [9]: #normalitzem
        scaler=preprocessing.MinMaxScaler(feature_range=(0, 1))
        daily_dia_norm=scaler.fit_transform(daily_dia)

In [12]: #Seleccionem dades per test i train
         y_daily=daily_dia_norm[:,0:60]
         X_daily=daily_dia_norm[:,61:118]

         #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], 14,4))

In [13]: # definim model
         import tensorflow as tf
         model =Sequential()
         model.add(LSTM(50, activation='relu', input_shape=(14, 4)))
         model.add(Dense(60))
         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 [14]: 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()
```

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

Out[15]: 0.07616206263029822

In [16]: *#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[16]: [[[0.5449538826942444,
          0.5526272654533386,
          0.5182319283485413,
          0.5281034708023071,
          0.5503360033035278,
          0.5329936146736145,
          0.5358158349990845,
          0.5253902673721313,
          0.5439688563346863,
          0.5455491542816162,
          0.5391705632209778,
          0.5343717336654663,
          0.5291777849197388,
          0.5193900465965271,
          0.5436458587646484,
          0.5553724765777588,
          0.524225652217865,
          0.5348421335220337,
          0.5070203542709351,
          0.5150138139724731,
          0.5252707600593567,
          0.5103194117546082,
          0.5492348074913025,
          0.5224864482879639,
          0.5289140939712524,
          0.499335914850235,
          0.5154221057891846,
          0.5440959930419922,
          0.5268644690513611,
          0.5369056463241577,
          0.5231122374534607,
          0.5232843160629272,
          0.51434326171875,
          0.4970332682132721,
          0.4953985810279846,
          0.49861428141593933,
          0.49955829977989197,
          0.4756455719470978,
          0.4704572260379791,
          0.47274771332740784,
          0.45138484239578247,
          0.4772431254386902,
          0.47550004720687866,
          0.4695627987384796,
          0.45742350816726685,
          0.4554770290851593,
          0.45126527547836304,
          0.46407273411750793,
```

0.44750794768333435,
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      0.44912242889404297,
      0.42151758074760437,
      0.409457266330719,
      0.43165382742881775,
      0.4244575500488281,
      0.426591157913208,
      0.42744529247283936,
      0.41066300868988037,
      0.39871376752853394,
      0.4081662595272064]],
[[0.5311806201934814,
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      0.5122395753860474,
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      0.5248510241508484,
      0.5211153030395508,
      0.5155141353607178,
      0.5072113275527954,
      0.5060327649116516,
      0.5102877616882324,
      0.5192182660102844,
      0.5234944224357605,
      0.5103877782821655,
      0.4996330440044403,
      0.517556369304657,
      0.5234424471855164,
      0.510840892791748,
      0.49676650762557983,
      0.4975484311580658,
      0.50166505575518005,
      0.5073687434196472,
      0.4944157600402832,
      0.49539926648139954,
      0.5082676410675049,
      0.49865177273750305,
      0.4950902760028839,
      0.5111415982246399,
      0.49526405334472656,
      0.4991767108440399,
      0.4762166738510132,
      0.471082478761673,
      0.46404966711997986,
      0.48415428400039673,
      0.48149967193603516,
      0.4650524854660034,
      0.47461822628974915,

```
    0.48329684138298035,
    0.4561215937137604,
    0.4413816034793854,
    0.45330896973609924,
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    0.42456093430519104,
    0.4277355670928955,
    0.4285794496536255,
    0.4058869779109955,
    0.40924036502838135,
    0.40373679995536804,
    0.41853705048561096,
    0.4166165292263031,
    0.40204402804374695,
    0.3869275152683258,
    0.37447091937065125,
    0.3662576675415039,
    0.3732810616493225,
    0.37420007586479187,
    0.3819335401058197,
    0.3619118928909302,
    0.36153045296669006,
    0.35429108142852783,
    0.34657174348831177]],
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    0.5449424982070923,
    0.5543572902679443,
    0.5355704426765442,
    0.5304394960403442,
    0.5333444476127625,
    0.5193924903869629,
    0.5433772206306458,
    0.5525630712509155,
    0.5440540909767151,
    0.5429016351699829,
    0.5385566353797913,
    0.5471795797348022,
    0.533654510974884,
    0.5529388189315796,
    0.5258607268333435,
    0.5489255785942078,
    0.5496899485588074,
    0.5242030024528503,
    0.514533281326294,
```

```
    0.5312416553497314,
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    0.5440464019775391,
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    0.5447043180465698,
    0.5156669616699219,
    0.5071515440940857,
    0.5313260555267334,
    0.5244290828704834,
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    0.5102381110191345,
    0.48045438528060913,
    0.48785167932510376,
    0.4615141749382019,
    0.4659525752067566,
    0.45869728922843933,
    0.4497029781341553,
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    0.4335038363933563,
    0.39255964756011963,
    0.42842352390289307,
    0.39091694355010986,
    0.38879597187042236,
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    0.3744548261165619,
    0.3858546018600464,
    0.38143855333328247,
    0.3748858869075775,
    0.3730950355529785,
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    0.36299481987953186,
    0.3405068516731262,
    0.3428581655025482]],
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    0.6071102619171143,
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    0.5935861468315125,
    0.5857928991317749,
    0.6007240414619446,
    0.5792908668518066,
    0.5750200748443604,
    0.599416196346283,
```

```
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0.5795664191246033,
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```

In [17]: #Fem llista amb la predicció de només el dia següent
         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

```python
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])

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])
```

```python
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])
```

```python
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])


#Fem llista amb la predicció de només el dia següent
llista_p30=list()
for i in range(len(llista_p)):
    llista_p30.append(llista_p[i][0][30])

#Fem llista amb la predicció de 2 dies
llista_p31=list()
for i in range(len(llista_p)):
    llista_p31.append(llista_p[i][0][31])

#Altres dies

llista_p32=list()
for i in range(len(llista_p)):
    llista_p32.append(llista_p[i][0][32])

llista_p33=list()
for i in range(len(llista_p)):
    llista_p33.append(llista_p[i][0][33])

llista_p34=list()
for i in range(len(llista_p)):
    llista_p34.append(llista_p[i][0][34])

llista_p35=list()
for i in range(len(llista_p)):
    llista_p35.append(llista_p[i][0][35])

llista_p36=list()
```

```python
for i in range(len(llista_p)):
    llista_p36.append(llista_p[i][0][36])

llista_p37=list()
for i in range(len(llista_p)):
    llista_p37.append(llista_p[i][0][37])

llista_p38=list()
for i in range(len(llista_p)):
    llista_p38.append(llista_p[i][0][38])

llista_p39=list()
for i in range(len(llista_p)):
    llista_p39.append(llista_p[i][0][39])

llista_p40=list()
for i in range(len(llista_p)):
    llista_p40.append(llista_p[i][0][40])

llista_p41=list()
for i in range(len(llista_p)):
    llista_p41.append(llista_p[i][0][41])

llista_p42=list()
for i in range(len(llista_p)):
    llista_p42.append(llista_p[i][0][42])

llista_p43=list()
for i in range(len(llista_p)):
    llista_p43.append(llista_p[i][0][43])

llista_p44=list()
for i in range(len(llista_p)):
    llista_p44.append(llista_p[i][0][44])

llista_p45=list()
for i in range(len(llista_p)):
    llista_p45.append(llista_p[i][0][45])

llista_p46=list()
for i in range(len(llista_p)):
    llista_p46.append(llista_p[i][0][46])

llista_p47=list()
for i in range(len(llista_p)):
    llista_p47.append(llista_p[i][0][47])

llista_p48=list()
```

```python
        for i in range(len(llista_p)):
            llista_p48.append(llista_p[i][0][48])

    llista_p49=list()
    for i in range(len(llista_p)):
        llista_p49.append(llista_p[i][0][49])

    llista_p50=list()
    for i in range(len(llista_p)):
        llista_p50.append(llista_p[i][0][50])

    llista_p51=list()
    for i in range(len(llista_p)):
        llista_p51.append(llista_p[i][0][51])

    llista_p52=list()
    for i in range(len(llista_p)):
        llista_p52.append(llista_p[i][0][52])

    llista_p53=list()
    for i in range(len(llista_p)):
        llista_p53.append(llista_p[i][0][53])

        llista_p54=list()
    for i in range(len(llista_p)):
        llista_p54.append(llista_p[i][0][54])

    llista_p55=list()
    for i in range(len(llista_p)):
        llista_p55.append(llista_p[i][0][55])

    llista_p56=list()
    for i in range(len(llista_p)):
        llista_p56.append(llista_p[i][0][56])

    llista_p57=list()
    for i in range(len(llista_p)):
        llista_p57.append(llista_p[i][0][57])

    llista_p58=list()
    for i in range(len(llista_p)):
        llista_p58.append(llista_p[i][0][58])

    llista_p59=list()
    for i in range(len(llista_p)):
        llista_p59.append(llista_p[i][0][59])
```

```python
In [18]: score0=math.sqrt(mean_squared_error(y_daily[n_train:lenght,0], llista_p0))
```

```python
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))
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))
```

```python
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))

score30=math.sqrt(mean_squared_error(y_daily[n_train:lenght,30], llista_p30))
print("Error predicció 31 dia següent: {}".format(score30))
score31=math.sqrt(mean_squared_error(y_daily[n_train:lenght,31], llista_p31))
print("Error predicció 32 dia següent: {}".format(score31))
score32=math.sqrt(mean_squared_error(y_daily[n_train:lenght,32], llista_p32))
print("Error predicció 33 dia següent: {}".format(score32))
score33=math.sqrt(mean_squared_error(y_daily[n_train:lenght,33], llista_p33))
print("Error predicció 34 dia següent: {}".format(score33))
score34=math.sqrt(mean_squared_error(y_daily[n_train:lenght,34], llista_p34))
print("Error predicció 35 dia següent: {}".format(score34))
score35=math.sqrt(mean_squared_error(y_daily[n_train:lenght,35], llista_p35))
print("Error predicció 36 dia següent: {}".format(score35))
score36=math.sqrt(mean_squared_error(y_daily[n_train:lenght,36], llista_p36))
print("Error predicció 37 dia següent: {}".format(score36))
score37=math.sqrt(mean_squared_error(y_daily[n_train:lenght,37], llista_p37))
print("Error predicció 38 dia següent: {}".format(score37))
score38=math.sqrt(mean_squared_error(y_daily[n_train:lenght,38], llista_p38))
print("Error predicció 39 dia següent: {}".format(score38))
score39=math.sqrt(mean_squared_error(y_daily[n_train:lenght,39], llista_p39))
print("Error predicció 40 dia següent: {}".format(score39))
score40=math.sqrt(mean_squared_error(y_daily[n_train:lenght,40], llista_p40))
print("Error predicció 41 dia següent: {}".format(score40))
score41=math.sqrt(mean_squared_error(y_daily[n_train:lenght,41], llista_p41))
print("Error predicció 42 dia següent: {}".format(score41))
score42=math.sqrt(mean_squared_error(y_daily[n_train:lenght,42], llista_p42))
print("Error predicció 43 dia següent: {}".format(score42))
score43=math.sqrt(mean_squared_error(y_daily[n_train:lenght,43], llista_p43))
print("Error predicció 44 dia següent: {}".format(score43))
score44=math.sqrt(mean_squared_error(y_daily[n_train:lenght,44], llista_p44))
print("Error predicció 45 dia següent: {}".format(score44))
score45=math.sqrt(mean_squared_error(y_daily[n_train:lenght,45], llista_p45))
print("Error predicció 46 dia següent: {}".format(score45))
score46=math.sqrt(mean_squared_error(y_daily[n_train:lenght,46], llista_p46))
print("Error predicció 47 dia següent: {}".format(score46))
score47=math.sqrt(mean_squared_error(y_daily[n_train:lenght,47], llista_p47))
print("Error predicció 48 dia següent: {}".format(score47))
```

```python
        score48=math.sqrt(mean_squared_error(y_daily[n_train:lenght,48], llista_p48))
        print("Error predicció 49 dia següent: {}".format(score48))
        score49=math.sqrt(mean_squared_error(y_daily[n_train:lenght,49], llista_p49))
        print("Error predicció 50 dia següent: {}".format(score49))
        score50=math.sqrt(mean_squared_error(y_daily[n_train:lenght,50], llista_p50))
        print("Error predicció 51 dia següent: {}".format(score50))
        score51=math.sqrt(mean_squared_error(y_daily[n_train:lenght,51], llista_p51))
        print("Error predicció 52 dia següent: {}".format(score51))
        score52=math.sqrt(mean_squared_error(y_daily[n_train:lenght,52], llista_p52))
        print("Error predicció 53 dia següent: {}".format(score52))
        score53=math.sqrt(mean_squared_error(y_daily[n_train:lenght,53], llista_p53))
        print("Error predicció 54 dia següent: {}".format(score53))
        score54=math.sqrt(mean_squared_error(y_daily[n_train:lenght,54], llista_p54))
        print("Error predicció 55 dia següent: {}".format(score54))
        score55=math.sqrt(mean_squared_error(y_daily[n_train:lenght,55], llista_p55))
        print("Error predicció 56 dia següent: {}".format(score55))
        score56=math.sqrt(mean_squared_error(y_daily[n_train:lenght,56], llista_p56))
        print("Error predicció 57 dia següent: {}".format(score56))
        score57=math.sqrt(mean_squared_error(y_daily[n_train:lenght,57], llista_p57))
        print("Error predicció 58 dia següent: {}".format(score57))
        score58=math.sqrt(mean_squared_error(y_daily[n_train:lenght,58], llista_p58))
        print("Error predicció 59 dia següent: {}".format(score58))
        score59=math.sqrt(mean_squared_error(y_daily[n_train:lenght,59], llista_p59))
        print("Error predicció 60 dia següent: {}".format(score59))
```

```
Error predicció 1 dia següent: 0.0559280003110196
Error predicció 2 dia següent: 0.05844069392289882
Error predicció 3 dia següent: 0.05419684176732098
Error predicció 4 dia següent: 0.05772695685651792
Error predicció 5 dia següent: 0.06335974735826629
Error predicció 6 dia següent: 0.06246182440452529
Error predicció 7 dia següent: 0.06401918938157053
Error predicció 8 dia següent: 0.0722543814203145
Error predicció 9 dia següent: 0.07540300439358928
Error predicció 10 dia següent: 0.06731205902646666
Error predicció 11 dia següent: 0.06164318992013771
Error predicció 12 dia següent: 0.06600742537311174
Error predicció 13 dia següent: 0.06829876823544793
Error predicció 14 dia següent: 0.0736145023016248
Error predicció 15 dia següent: 0.08313432640270002
Error predicció 16 dia següent: 0.08459921711032094
Error predicció 17 dia següent: 0.07859141086760126
Error predicció 18 dia següent: 0.07517651707377669
Error predicció 19 dia següent: 0.08033295532338801
Error predicció 20 dia següent: 0.07890175494205329
Error predicció 21 dia següent: 0.08091913844315257
Error predicció 22 dia següent: 0.08798862902590861
Error predicció 23 dia següent: 0.08599579003336116
```

```
Error predicció 24 dia següent: 0.0809991340631659
Error predicció 25 dia següent: 0.08036145409650076
Error predicció 26 dia següent: 0.07872938391293757
Error predicció 27 dia següent: 0.08006521972741126
Error predicció 28 dia següent: 0.08618008968708492
Error predicció 29 dia següent: 0.09151253519816722
Error predicció 30 dia següent: 0.09156480957911002
Error predicció 31 dia següent: 0.08789967541095302
Error predicció 32 dia següent: 0.0864669257833003
Error predicció 33 dia següent: 0.08760140239037874
Error predicció 34 dia següent: 0.0889177222478405
Error predicció 35 dia següent: 0.09375154833834108
Error predicció 36 dia següent: 0.09554728748230988
Error predicció 37 dia següent: 0.09585624845514189
Error predicció 38 dia següent: 0.09268038090857526
Error predicció 39 dia següent: 0.09134499089073324
Error predicció 40 dia següent: 0.09003518759959035
Error predicció 41 dia següent: 0.09416988538501864
Error predicció 42 dia següent: 0.09707323825844427
Error predicció 43 dia següent: 0.10146112474798466
Error predicció 44 dia següent: 0.09837709896042272
Error predicció 45 dia següent: 0.09347814890186669
Error predicció 46 dia següent: 0.09230496100086048
Error predicció 47 dia següent: 0.09403340366442764
Error predicció 48 dia següent: 0.09424122274851919
Error predicció 49 dia següent: 0.09550196264197496
Error predicció 50 dia següent: 0.10129431960475468
Error predicció 51 dia següent: 0.1047473591941168
Error predicció 52 dia següent: 0.10257622091203498
Error predicció 53 dia següent: 0.1002371233760128
Error predicció 54 dia següent: 0.10046872204707141
Error predicció 55 dia següent: 0.10068428501991558
Error predicció 56 dia següent: 0.10577550451773723
Error predicció 57 dia següent: 0.11530133313587787
Error predicció 58 dia següent: 0.114194483949961
Error predicció 59 dia següent: 0.10765021779140088
Error predicció 60 dia següent: 0.1057217852905353
```

```python
In [19]: predis=list()

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

         predis=np.reshape(predis, (len(llista_prediccions),60)  )

         predis
```

```
Out[19]: array([[0.54495388, 0.55262727, 0.51823193, ..., 0.41066301, 0.39871377,
                  0.40816626],
                 [0.53118062, 0.51851863, 0.51223958, ..., 0.36153045, 0.35429108,
                  0.34657174],
                 [0.5894509 , 0.57806957, 0.57442075, ..., 0.36299482, 0.34050685,
                  0.34285817],
                 ...,
                 [0.5629198 , 0.58129394, 0.57543838, ..., 0.43858892, 0.47010341,
                  0.43324983],
                 [0.55456948, 0.5723924 , 0.52172685, ..., 0.44738567, 0.41126984,
                  0.39314282],
                 [0.55797577, 0.57631385, 0.54545325, ..., 0.43940985, 0.43277824,
                  0.42806935]])
```

In [20]: *##Mostrem*
```
plt.plot(predis[4], label="predit")
plt.plot(y_daily[n_train+4], label="real")
plt.legend(loc="lower right")
plt.show()
```
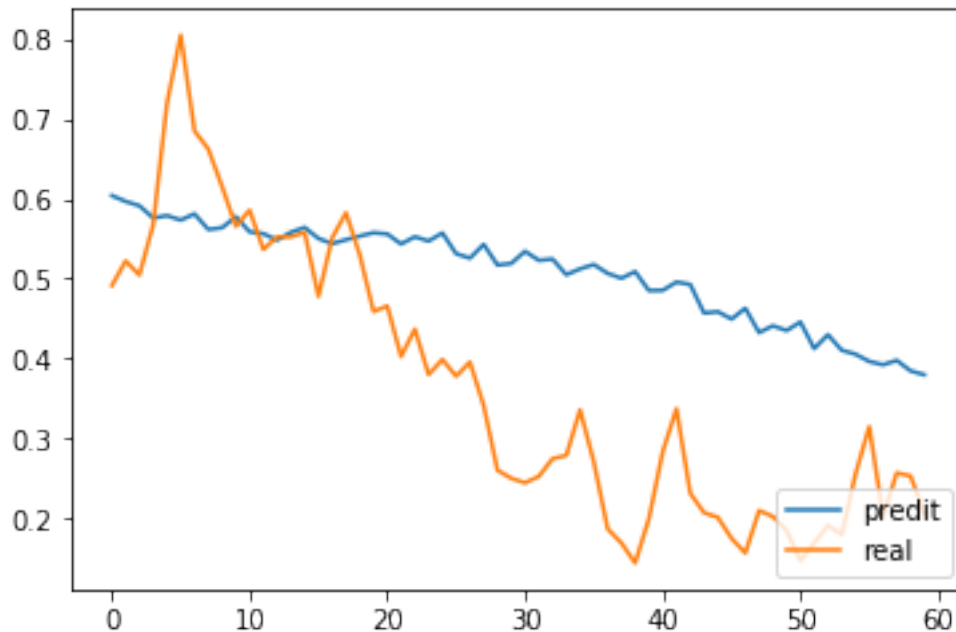

In [21]: *##Mostrem*
```
plt.plot(llista_p0, label="predit1")
plt.plot(y_daily[n_train:lenght,0], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 1 dia següent")
plt.show()
```

```python
plt.plot(llista_p1, label="predit2")
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")
```

```python
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()

plt.plot(llista_p39, label="predit40")
plt.plot(y_daily[n_train:lenght,39], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 40 dia següent")
plt.show()

plt.plot(llista_p49, label="predit50")
plt.plot(y_daily[n_train:lenght,49], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 50 dia següent")
plt.show()

plt.plot(llista_p59, label="predit60")
plt.plot(y_daily[n_train:lenght,59], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 60 dia següent")
plt.show()
```
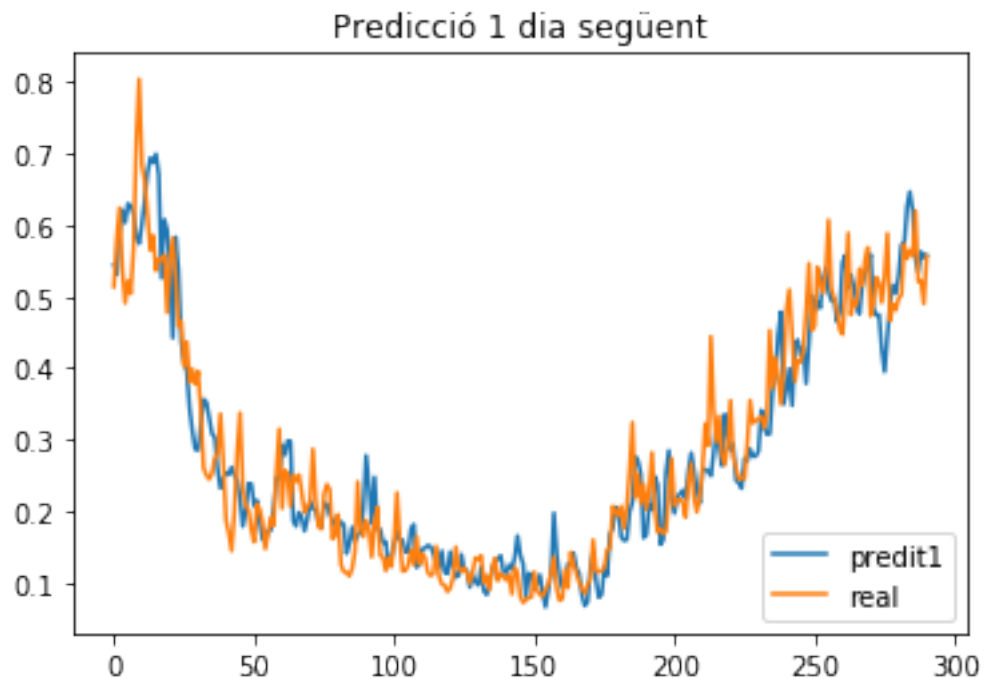
Predicció 2 dia següent
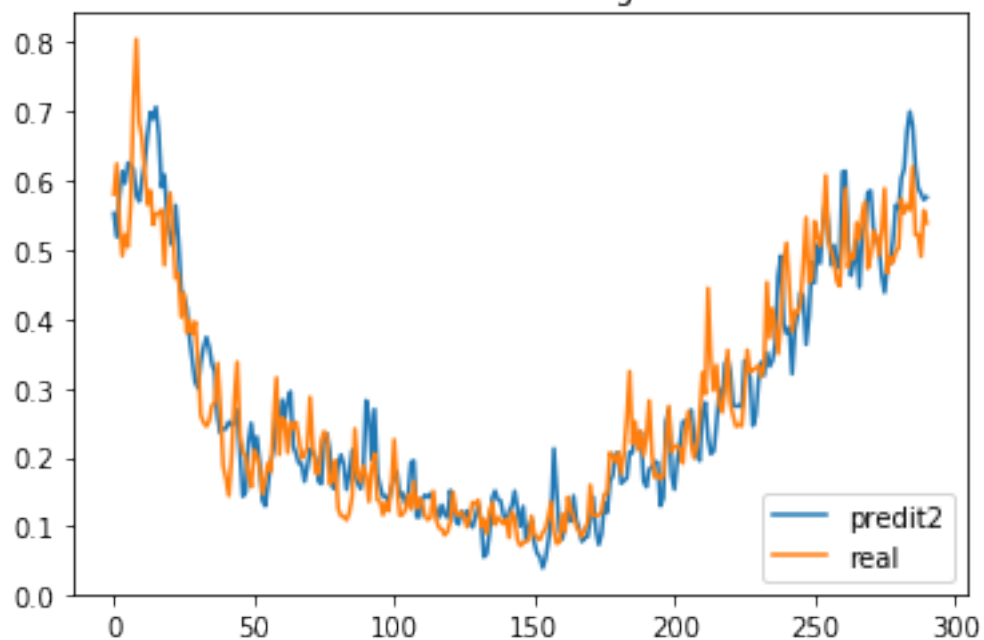
Predicció 3 dia següent
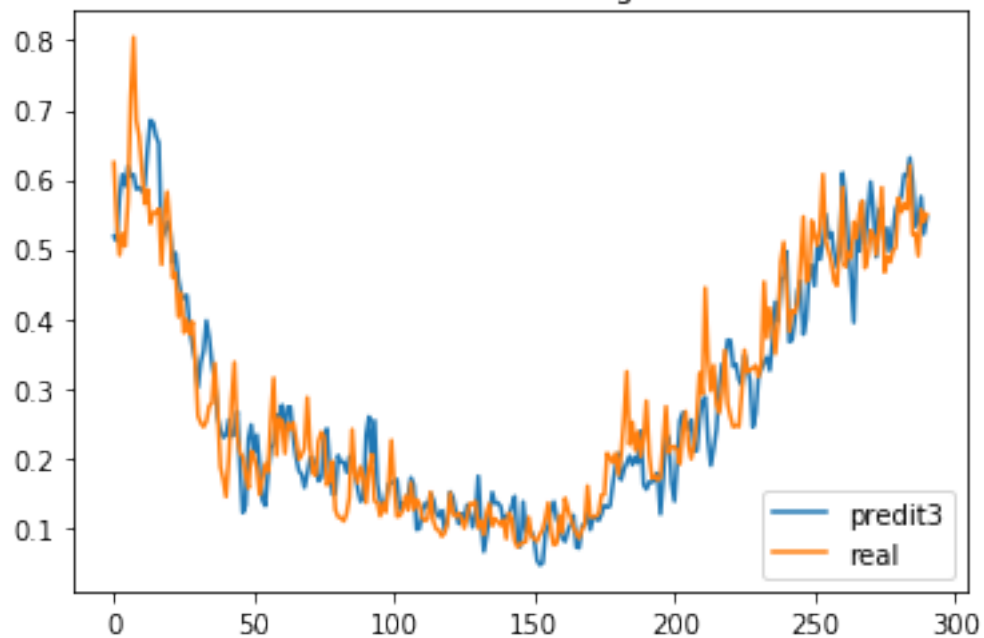
Predicció 4 dia següent
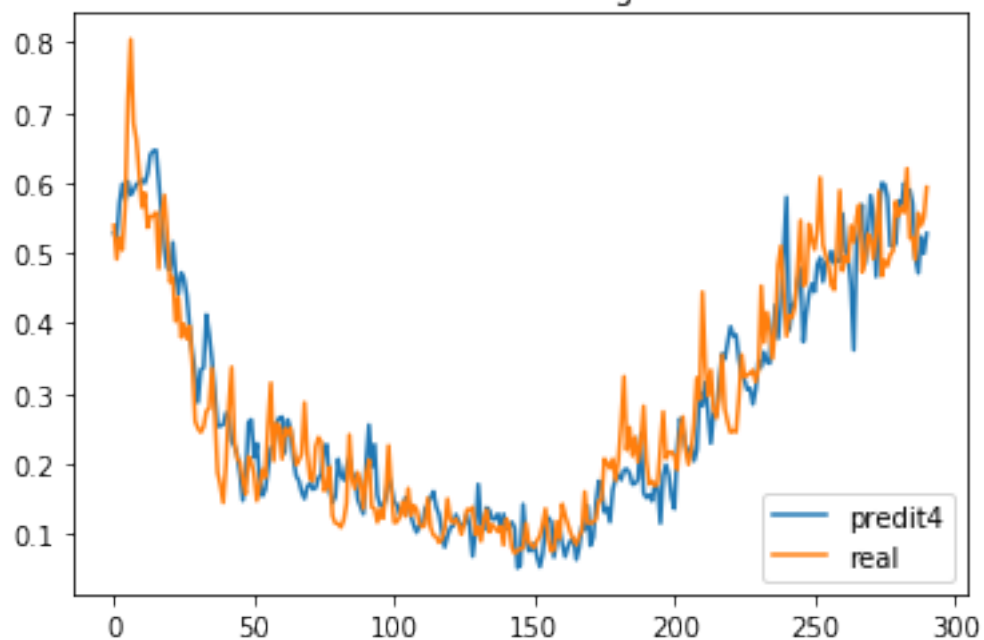
Predicció 5 dia següent
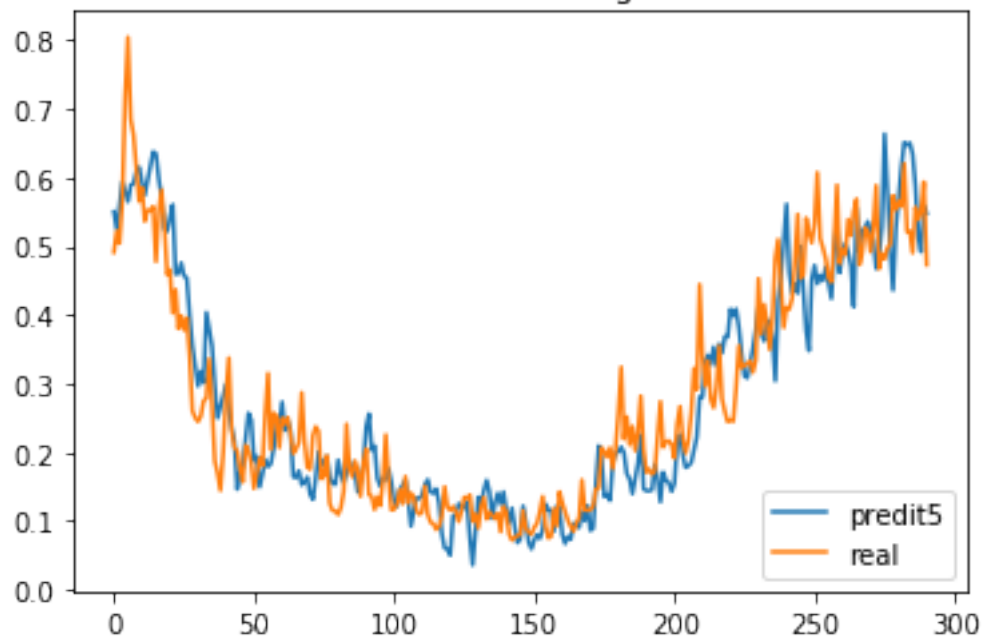
Predicció 6 dia següent
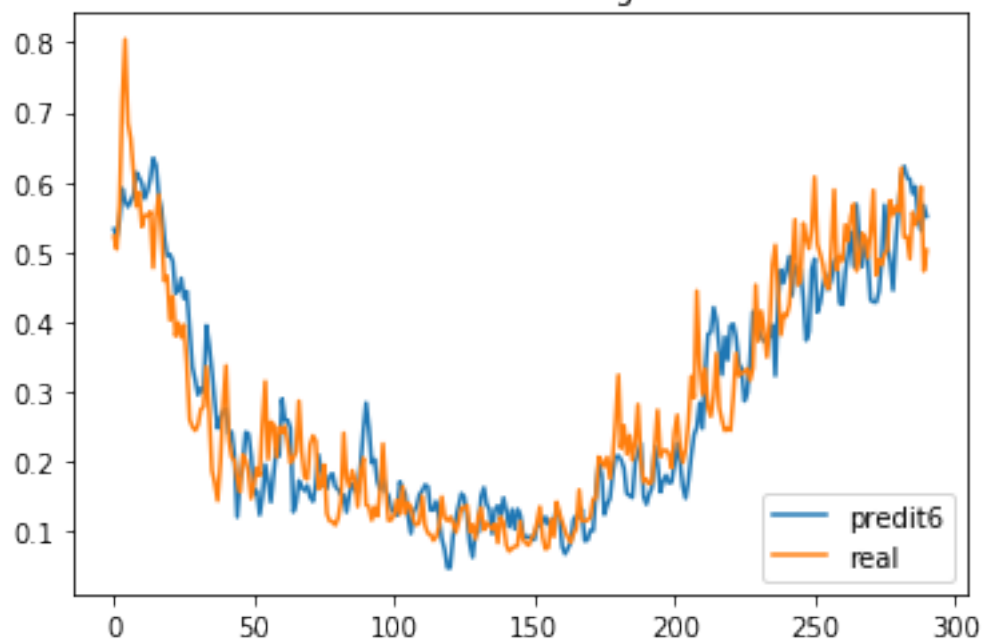
Predicció 7 dia següent
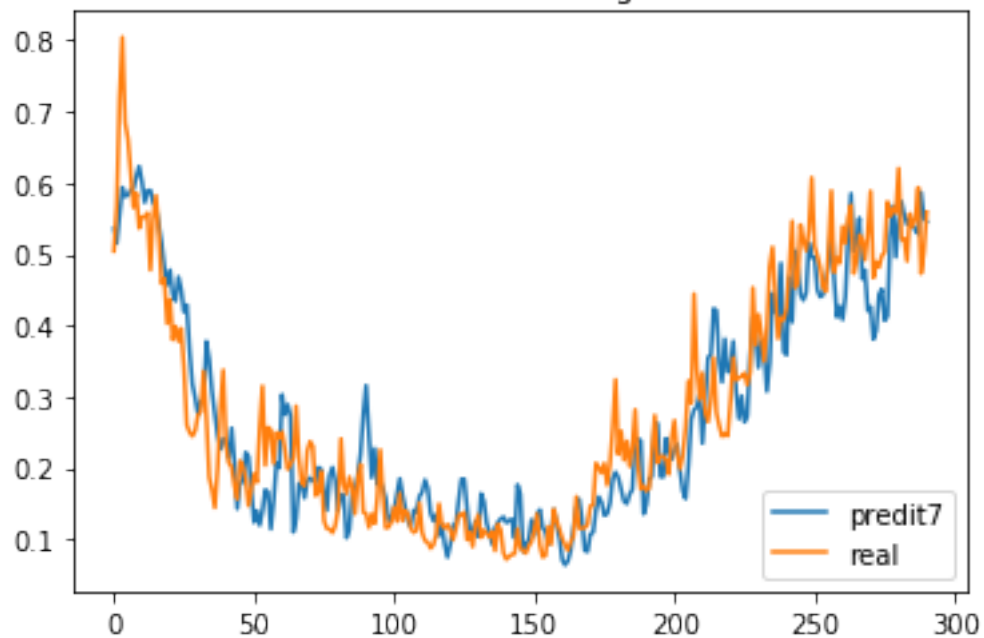
Predicció 15 dia següent
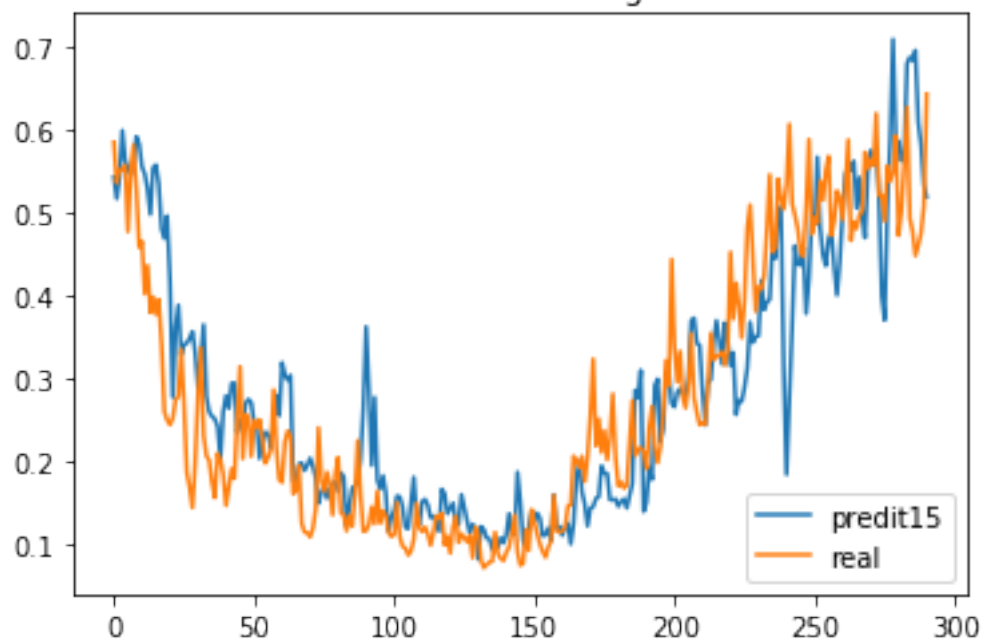
Predicció 22 dia següent
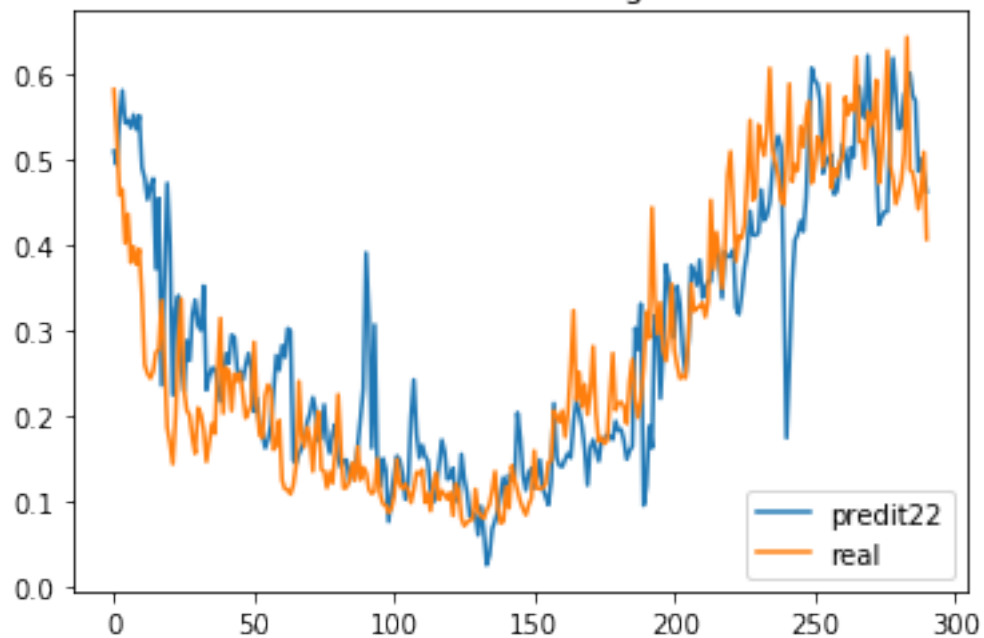
Predicció 30 dia següent
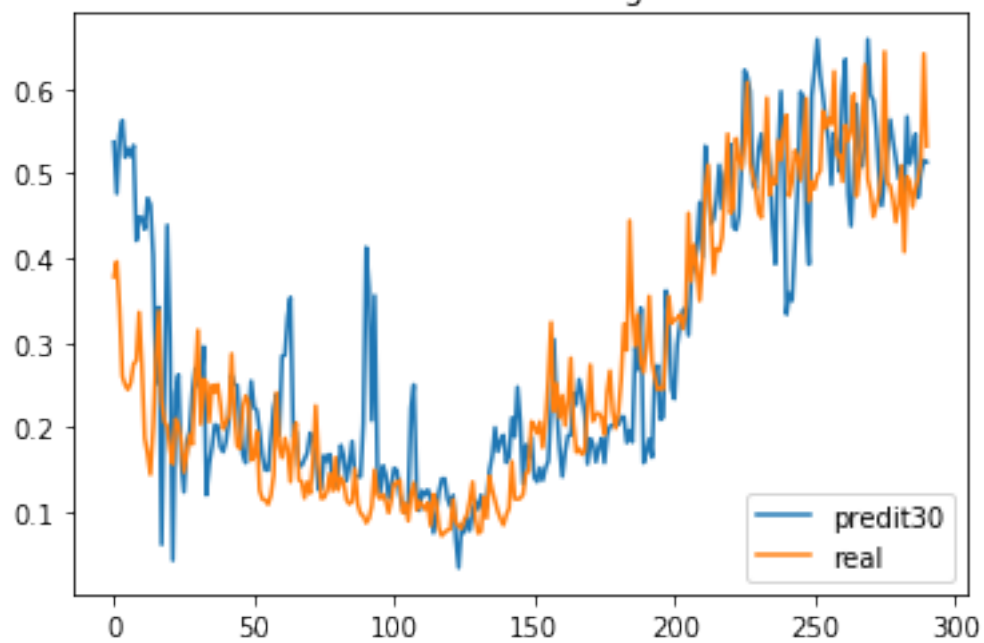
Predicció 40 dia següent
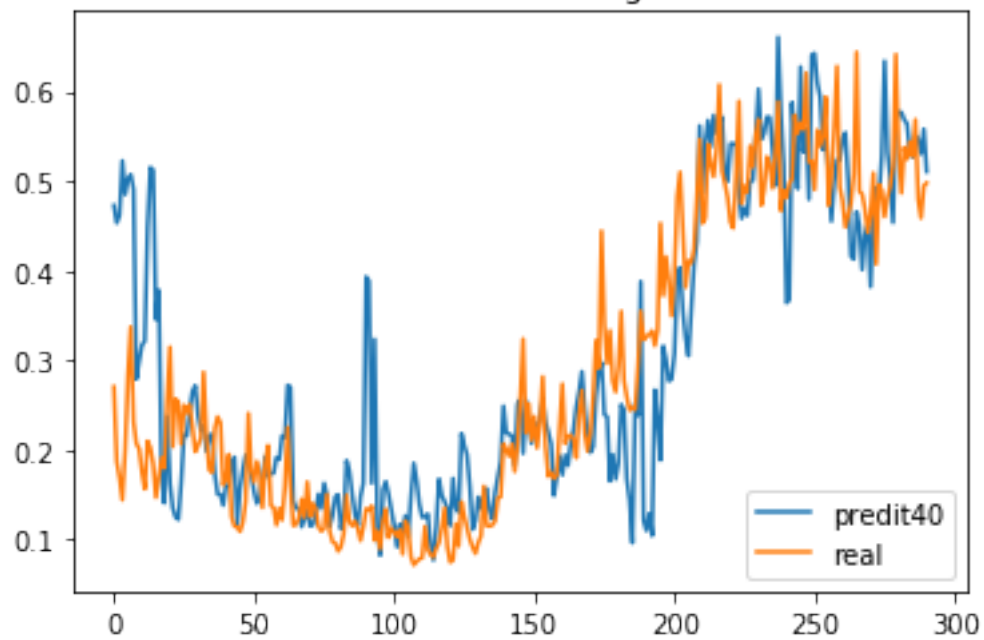
Predicció 50 dia següent
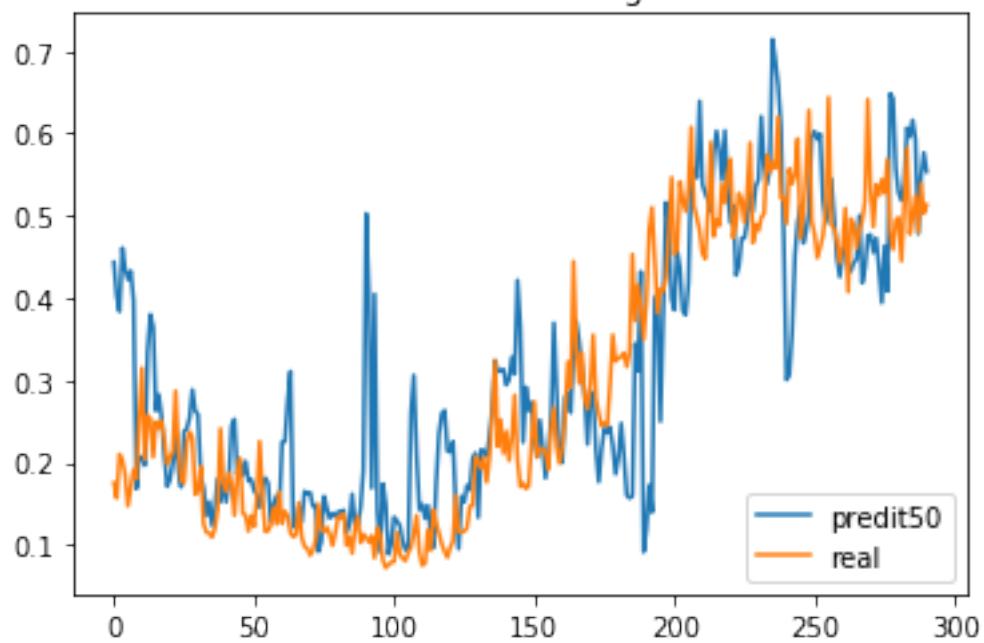
Predicció 60 dia següent
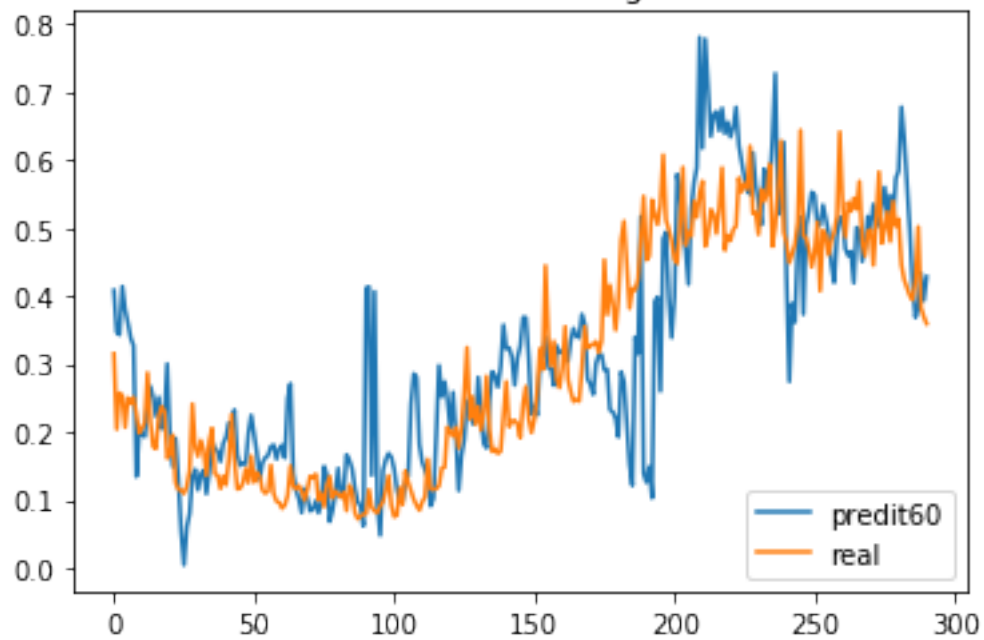
In [ ]:

```
In [22]: llista_scores

Out[22]: [0.1765228285484901,
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          0.12806475132769338,
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0.055455544992759356,
0.060281637598709664,
0.06490001348621698,
0.1161569113167713,
0.05232699929697699,
0.08314464998418411,
0.09589435056429055,
0.08588050926153011,
0.08499637511360084,
0.08643467725901446,
0.07362029897243268,
0.059812939496400666,
0.07245659474862073,
0.0642309546078426,
0.07420825043069983,
0.06772828585015618,
0.07346502490224821,
0.060346887673290925,
0.06191733992648218,
0.06860291820944402,
0.063014859554727,
0.05561545983838228,
0.060267491536176124,
0.05407009411426036,
0.05292075758110224,
0.06468175241127565,
0.061618670895457035,
0.057795348009685846,
0.06487117274443137,
0.08362280888706033,
0.11666070477926097,
0.0857792056878134,

0.09122215310278482,
0.07749475876350455,
0.21018949054889904,
0.19893123664041826,
0.10556331823390672,
0.0760981083391698,
0.07027842311211951,
0.06834701739081193,
0.09918895215989047,
0.09850503717223379,
0.09101297842674728,
0.0845264137138987,
0.09667975178789574,
0.08716375233856608,
0.07292273578063789,
0.05960463219188207,
0.05560523535423643,
0.05243206881563702,
0.0517707973008757,
0.054659431365750764,
0.05707252215730177,
0.06283899579286582,
0.0583851375620323,
0.05708677473209751,
0.07164436806030067,
0.07816406079998157,
0.09324871716854224,
0.05849336618091409,
0.059840849019861746,
0.08087586774525128,
0.06479280046943836,
0.0772834849871856,
0.07256942004709663,
0.06661321286535324,
0.054316739249887634,
0.05691741995671101,
0.0923555949981335,
0.1072758627622315,
0.09889211002905687,
0.07353423919922274,
0.09930081435628152,
0.0851685690791102,
0.06448350281836505,
0.0892552562674823,
0.09178832064274811,
0.10967772846803778,
0.1070137039293958,
0.09942113653119013,

```
        0.09596945395896023,
        0.07798979108532648,
        0.06064551099113364,
        0.06100230861042612,
        0.06283697262510253]
```

In [23]: plt.plot(llista_scores)

Out[23]: [<matplotlib.lines.Line2D at 0x24465cd6160>]
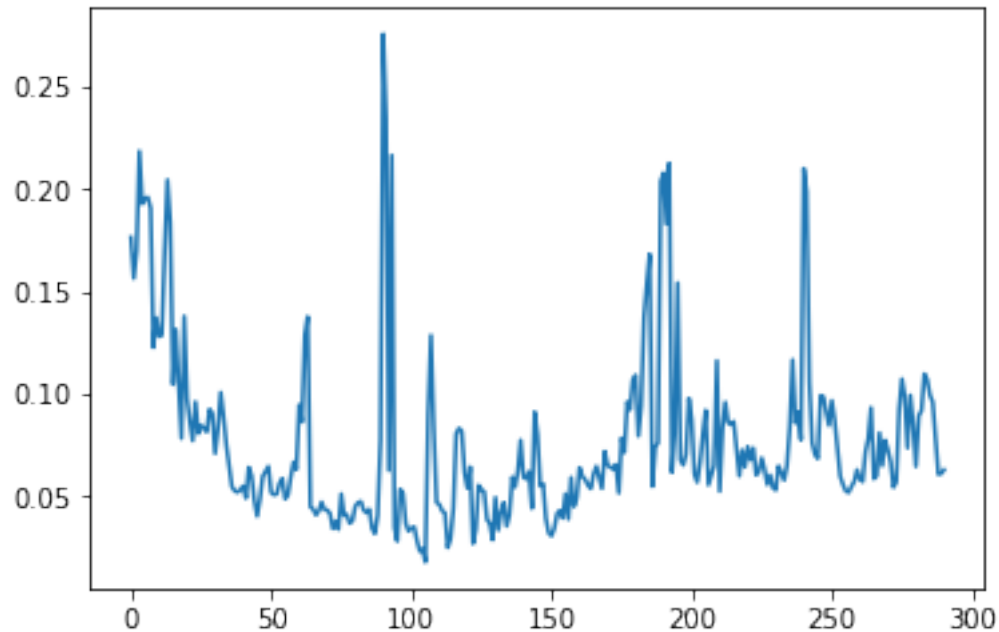
In [24]: prova=daily_dia.iloc[n_train:lenght]
        prova
        #len(predis)
        #lenght-n_train
        #prova['predi']=predis
        prova['predi1']=llista_p0
        prova['predi2']=llista_p1
        prova['predi3']=llista_p2
        prova['predi4']=llista_p3
        prova['predi5']=llista_p4
        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['predi31']=llista_p30
prova['predi32']=llista_p31
prova['predi33']=llista_p32
prova['predi34']=llista_p33
prova['predi35']=llista_p34
prova['predi36']=llista_p35
prova['predi37']=llista_p36
prova['predi38']=llista_p37
prova['predi39']=llista_p38
prova['predi40']=llista_p39
prova['predi41']=llista_p40
prova['predi42']=llista_p41
prova['predi43']=llista_p42
prova['predi44']=llista_p43
prova['predi45']=llista_p44
prova['predi46']=llista_p45
prova['predi47']=llista_p46
prova['predi48']=llista_p47
prova['predi49']=llista_p48
prova['predi50']=llista_p49
prova['predi51']=llista_p50
prova['predi52']=llista_p51
prova['predi53']=llista_p52
prova['predi54']=llista_p53
prova['predi55']=llista_p54
prova['predi56']=llista_p55
prova['predi57']=llista_p56
prova['predi58']=llista_p57
prova['predi59']=llista_p58
```

```
prova['predi60']=llista_p59


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]
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['y31']=y_daily[n_train:lenght,20]
prova['y32']=y_daily[n_train:lenght,21]
prova['y33']=y_daily[n_train:lenght,22]
prova['y34']=y_daily[n_train:lenght,23]
prova['y35']=y_daily[n_train:lenght,24]
prova['y36']=y_daily[n_train:lenght,25]
prova['y37']=y_daily[n_train:lenght,26]
prova['y38']=y_daily[n_train:lenght,27]
prova['y39']=y_daily[n_train:lenght,28]
prova['y40']=y_daily[n_train:lenght,19]
prova['y41']=y_daily[n_train:lenght,20]
prova['y42']=y_daily[n_train:lenght,21]
prova['y43']=y_daily[n_train:lenght,22]
```

```python
prova['y44']=y_daily[n_train:lenght,23]
prova['y45']=y_daily[n_train:lenght,24]
prova['y46']=y_daily[n_train:lenght,25]
prova['y47']=y_daily[n_train:lenght,26]
prova['y48']=y_daily[n_train:lenght,27]
prova['y49']=y_daily[n_train:lenght,28]
prova['y50']=y_daily[n_train:lenght,19]
prova['y51']=y_daily[n_train:lenght,20]
prova['y52']=y_daily[n_train:lenght,21]
prova['y53']=y_daily[n_train:lenght,22]
prova['y54']=y_daily[n_train:lenght,23]
prova['y55']=y_daily[n_train:lenght,24]
prova['y56']=y_daily[n_train:lenght,25]
prova['y57']=y_daily[n_train:lenght,26]
prova['y58']=y_daily[n_train:lenght,27]
prova['y59']=y_daily[n_train:lenght,28]
prova['y60']=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:1
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:1
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
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```

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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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: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

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
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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
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```
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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
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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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
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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.
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:
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:
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 [25]: *#Tornem valors a normals*

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

In [28]:
```python
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()

llista31=list()
llista32=list()
llista33=list()
llista34=list()
llista35=list()
llista36=list()
llista37=list()
llista38=list()
llista39=list()
llista40=list()
llista41=list()
llista42=list()
llista43=list()
llista44=list()
llista45=list()
llista46=list()
llista47=list()
llista48=list()
llista49=list()
llista50=list()
llista51=list()
llista52=list()
llista53=list()
llista54=list()
llista55=list()
llista56=list()
llista57=list()
llista58=list()
llista59=list()
llista60=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()
```

```python
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()
llistay31=list()
llistay32=list()
llistay33=list()
llistay34=list()
llistay35=list()
llistay36=list()
llistay37=list()
llistay38=list()
llistay39=list()
llistay40=list()
llistay41=list()
llistay42=list()
llistay43=list()
llistay44=list()
llistay45=list()
llistay46=list()
llistay47=list()
llistay48=list()
llistay49=list()
llistay50=list()
llistay51=list()
llistay52=list()
llistay53=list()
llistay54=list()
llistay55=list()
llistay56=list()
llistay57=list()
llistay58=list()
llistay59=list()
llistay60=list()
```

```python
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()
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()
```

```python
llista_errorsres30=list()

llista_errors35=list()
llista_errorsabs35=list()
llista_errorsres35=list()

llista_errors40=list()
llista_errorsabs40=list()
llista_errorsres40=list()

llista_errors45=list()
llista_errorsabs45=list()
llista_errorsres45=list()

llista_errors50=list()
llista_errorsabs50=list()
llista_errorsres50=list()

llista_errors55=list()
llista_errorsabs55=list()
llista_errorsres55=list()

llista_errors60=list()
llista_errorsabs60=list()
llista_errorsres60=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()
llista_errorsres31=list()
llista_errorsres32=list()
llista_errorsres33=list()
llista_errorsres34=list()
```

```python
llista_errorsres36=list()
llista_errorsres37=list()
llista_errorsres38=list()
llista_errorsres39=list()
llista_errorsres41=list()
llista_errorsres42=list()
llista_errorsres43=list()
llista_errorsres44=list()
llista_errorsres46=list()
llista_errorsres47=list()
llista_errorsres48=list()
llista_errorsres49=list()
llista_errorsres51=list()
llista_errorsres52=list()
llista_errorsres53=list()
llista_errorsres54=list()
llista_errorsres56=list()
llista_errorsres57=list()
llista_errorsres58=list()
llista_errorsres59=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])
```

```python
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])


llistay31.append(predi[i][44])
llistay32.append(predi[i][45])
llistay33.append(predi[i][46])
llistay34.append(predi[i][47])
llistay35.append(predi[i][48])
llistay36.append(predi[i][49])
llistay37.append(predi[i][50])
llistay38.append(predi[i][51])
llistay39.append(predi[i][52])
llistay40.append(predi[i][53])
llistay41.append(predi[i][54])
llistay42.append(predi[i][55])
llistay43.append(predi[i][56])
llistay44.append(predi[i][57])
llistay45.append(predi[i][58])
llistay46.append(predi[i][59])
llistay47.append(predi[i][60])
llistay48.append(predi[i][61])
llistay49.append(predi[i][62])
llistay50.append(predi[i][63])
llistay51.append(predi[i][64])
llistay52.append(predi[i][65])
llistay53.append(predi[i][66])
llistay54.append(predi[i][67])
llistay55.append(predi[i][68])
```

```
llistay56.append(predi[i][69])
llistay57.append(predi[i][70])
llistay58.append(predi[i][71])
llistay59.append(predi[i][72])
llistay60.append(predi[i][73])




llista15.append(predi2[i][0])
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])
llista31.append(predi2[i][16])
llista32.append(predi2[i][17])
llista33.append(predi2[i][18])
llista34.append(predi2[i][19])
llista35.append(predi2[i][20])
llista36.append(predi2[i][21])
llista37.append(predi2[i][22])
llista38.append(predi2[i][23])
llista39.append(predi2[i][24])
llista40.append(predi2[i][25])
llista41.append(predi2[i][26])
llista42.append(predi2[i][27])
llista43.append(predi2[i][28])
llista44.append(predi2[i][29])
llista45.append(predi2[i][30])
llista46.append(predi2[i][31])
llista47.append(predi2[i][32])
llista48.append(predi2[i][33])
llista49.append(predi2[i][34])
llista50.append(predi2[i][35])
llista51.append(predi2[i][36])
```

```
llista52.append(predi2[i][37])
llista53.append(predi2[i][38])
llista54.append(predi2[i][39])
llista55.append(predi2[i][40])
llista56.append(predi2[i][41])
llista57.append(predi2[i][42])
llista58.append(predi2[i][43])
llista59.append(predi2[i][44])
llista60.append(predi2[i][45])


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)
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)
```

```python
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)

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)
```

```python
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)

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)

valor30=llistay30[i] - llista30[i]
valorabs30=math.fabs(valor30)
valorrespecte30=valorabs30/llistay30[i]
```

```python
llista_errors30.append(valor30)
llista_errorsabs30.append(valorabs30)
llista_errorsres30.append(valorrespecte30)

valor35=llistay35[i] - llista35[i]
valorabs35=math.fabs(valor35)
valorrespecte35=valorabs35/llistay35[i]
llista_errors35.append(valor35)
llista_errorsabs35.append(valorabs35)
llista_errorsres35.append(valorrespecte35)

valor40=llistay40[i] - llista40[i]
valorabs40=math.fabs(valor40)
valorrespecte40=valorabs40/llistay40[i]
llista_errors40.append(valor40)
llista_errorsabs40.append(valorabs40)
llista_errorsres40.append(valorrespecte40)

valor45=llistay45[i] - llista45[i]
valorabs45=math.fabs(valor45)
valorrespecte45=valorabs45/llistay45[i]
llista_errors45.append(valor45)
llista_errorsabs45.append(valorabs45)
llista_errorsres45.append(valorrespecte45)

valor50=llistay50[i] - llista50[i]
valorabs50=math.fabs(valor50)
valorrespecte50=valorabs50/llistay50[i]
llista_errors50.append(valor50)
llista_errorsabs50.append(valorabs50)
llista_errorsres50.append(valorrespecte50)

valor55=llistay55[i] - llista55[i]
valorabs55=math.fabs(valor55)
valorrespecte55=valorabs55/llistay55[i]
llista_errors55.append(valor55)
llista_errorsabs55.append(valorabs55)
llista_errorsres55.append(valorrespecte55)

valor60=llistay60[i] - llista60[i]
valorabs60=math.fabs(valor60)
valorrespecte60=valorabs60/llistay60[i]
llista_errors60.append(valor60)
llista_errorsabs60.append(valorabs60)
llista_errorsres60.append(valorrespecte60)
```

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

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)

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)




valor31=llistay31[i] - llista31[i]
valorabs31=math.fabs(valor31)
valorrespecte31=valorabs31/llistay31[i]
```

```python
llista_errorsres31.append(valorrespecte31)

valor32=llistay32[i] - llista32[i]
valorabs32=math.fabs(valor32)
valorrespecte32=valorabs32/llistay32[i]
llista_errorsres32.append(valorrespecte32)

valor33=llistay33[i] - llista33[i]
valorabs33=math.fabs(valor33)
valorrespecte33=valorabs33/llistay33[i]
llista_errorsres33.append(valorrespecte33)

valor34=llistay34[i] - llista34[i]
valorabs34=math.fabs(valor34)
valorrespecte34=valorabs34/llistay34[i]
llista_errorsres34.append(valorrespecte34)

valor36=llistay36[i] - llista36[i]
valorabs36=math.fabs(valor36)
valorrespecte36=valorabs36/llistay36[i]
llista_errorsres36.append(valorrespecte36)

valor37=llistay37[i] - llista37[i]
valorabs37=math.fabs(valor37)
valorrespecte37=valorabs37/llistay37[i]
llista_errorsres37.append(valorrespecte37)

valor38=llistay38[i] - llista38[i]
valorabs38=math.fabs(valor38)
valorrespecte38=valorabs38/llistay38[i]
llista_errorsres38.append(valorrespecte38)

valor39=llistay39[i] - llista39[i]
valorabs39=math.fabs(valor39)
valorrespecte39=valorabs39/llistay39[i]
llista_errorsres39.append(valorrespecte39)


valor41=llistay41[i] - llista41[i]
valorabs41=math.fabs(valor41)
valorrespecte41=valorabs41/llistay41[i]
llista_errorsres41.append(valorrespecte41)

valor42=llistay42[i] - llista42[i]
valorabs42=math.fabs(valor42)
valorrespecte42=valorabs42/llistay42[i]
llista_errorsres42.append(valorrespecte42)
```

```python
valor43=llistay43[i] - llista43[i]
valorabs43=math.fabs(valor43)
valorrespecte43=valorabs43/llistay43[i]
llista_errorsres43.append(valorrespecte43)

valor44=llistay44[i] - llista44[i]
valorabs44=math.fabs(valor44)
valorrespecte44=valorabs44/llistay44[i]
llista_errorsres44.append(valorrespecte44)

valor46=llistay46[i] - llista46[i]
valorabs46=math.fabs(valor46)
valorrespecte46=valorabs46/llistay46[i]
llista_errorsres46.append(valorrespecte46)

valor47=llistay47[i] - llista47[i]
valorabs47=math.fabs(valor47)
valorrespecte47=valorabs47/llistay47[i]
llista_errorsres47.append(valorrespecte47)

valor48=llistay48[i] - llista48[i]
valorabs48=math.fabs(valor48)
valorrespecte48=valorabs48/llistay48[i]
llista_errorsres48.append(valorrespecte48)

valor49=llistay49[i] - llista49[i]
valorabs49=math.fabs(valor49)
valorrespecte49=valorabs49/llistay49[i]
llista_errorsres49.append(valorrespecte49)




valor51=llistay51[i] - llista51[i]
valorabs51=math.fabs(valor51)
valorrespecte51=valorabs51/llistay51[i]
llista_errorsres51.append(valorrespecte51)

valor52=llistay52[i] - llista52[i]
valorabs52=math.fabs(valor52)
valorrespecte52=valorabs52/llistay52[i]
llista_errorsres52.append(valorrespecte52)

valor53=llistay53[i] - llista53[i]
valorabs53=math.fabs(valor53)
valorrespecte53=valorabs53/llistay53[i]
llista_errorsres53.append(valorrespecte53)
```

```python
        valor54=llistay54[i] - llista54[i]
        valorabs54=math.fabs(valor54)
        valorrespecte54=valorabs54/llistay54[i]
        llista_errorsres54.append(valorrespecte54)

        valor56=llistay56[i] - llista56[i]
        valorabs56=math.fabs(valor56)
        valorrespecte56=valorabs56/llistay56[i]
        llista_errorsres56.append(valorrespecte56)

        valor57=llistay57[i] - llista57[i]
        valorabs57=math.fabs(valor57)
        valorrespecte57=valorabs57/llistay57[i]
        llista_errorsres57.append(valorrespecte57)

        valor58=llistay58[i] - llista58[i]
        valorabs58=math.fabs(valor58)
        valorrespecte58=valorabs58/llistay58[i]
        llista_errorsres58.append(valorrespecte58)

        valor59=llistay59[i] - llista59[i]
        valorabs59=math.fabs(valor59)
        valorrespecte59=valorabs59/llistay59[i]
        llista_errorsres59.append(valorrespecte59)


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()
```

```python
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)
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(llista35)
plt.plot(llistay35)
plt.title("Predicció consum a 35 dies")
plt.show()
```

```python
plt.plot(llista40)
plt.plot(llistay40)
plt.title("Predicció consum a 40 dies")
plt.show()

plt.plot(llista45)
plt.plot(llistay45)
plt.title("Predicció consum a 45 dies")
plt.show()

plt.plot(llista50)
plt.plot(llistay50)
plt.title("Predicció consum a 50 dies")
plt.show()

plt.plot(llista55)
plt.plot(llistay55)
plt.title("Predicció consum a 55 dies")
plt.show()

plt.plot(llista60)
plt.plot(llistay60)
plt.title("Predicció consum a 60 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)
```

```python
plt.title("Error percentual a 10 dies")
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()

plt.plot(llista_errorsres35)
plt.title("Error percentual a 35 dies")
plt.show()
plt.plot(llista_errorsres40)
plt.title("Error percentual a 40 dies")
plt.show()

plt.plot(llista_errorsres45)
plt.title("Error percentual a 45 dies")
plt.show()
plt.plot(llista_errorsres50)
plt.title("Error percentual a 50 dies")
plt.show()

plt.plot(llista_errorsres55)
plt.title("Error percentual a 55 dies")
plt.show()

plt.plot(llista_errorsres60)
plt.title("Error percentual a 60 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
```

```python
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


error_mitja31=sum(llista_errorsres31)/(len(llista_errorsres31))*100
error_mitja32=sum(llista_errorsres32)/(len(llista_errorsres32))*100
error_mitja33=sum(llista_errorsres33)/(len(llista_errorsres33))*100
error_mitja34=sum(llista_errorsres34)/(len(llista_errorsres34))*100
error_mitja36=sum(llista_errorsres36)/(len(llista_errorsres36))*100
error_mitja37=sum(llista_errorsres37)/(len(llista_errorsres37))*100
error_mitja38=sum(llista_errorsres38)/(len(llista_errorsres38))*100
error_mitja39=sum(llista_errorsres39)/(len(llista_errorsres39))*100
error_mitja41=sum(llista_errorsres41)/(len(llista_errorsres41))*100
error_mitja42=sum(llista_errorsres42)/(len(llista_errorsres42))*100
error_mitja43=sum(llista_errorsres43)/(len(llista_errorsres43))*100
error_mitja44=sum(llista_errorsres44)/(len(llista_errorsres44))*100
error_mitja46=sum(llista_errorsres46)/(len(llista_errorsres46))*100
error_mitja47=sum(llista_errorsres47)/(len(llista_errorsres47))*100
error_mitja48=sum(llista_errorsres48)/(len(llista_errorsres48))*100
error_mitja49=sum(llista_errorsres49)/(len(llista_errorsres49))*100

error_mitja51=sum(llista_errorsres51)/(len(llista_errorsres51))*100
error_mitja52=sum(llista_errorsres52)/(len(llista_errorsres52))*100
error_mitja53=sum(llista_errorsres53)/(len(llista_errorsres53))*100
error_mitja54=sum(llista_errorsres54)/(len(llista_errorsres54))*100
error_mitja56=sum(llista_errorsres56)/(len(llista_errorsres56))*100
error_mitja57=sum(llista_errorsres57)/(len(llista_errorsres57))*100
error_mitja58=sum(llista_errorsres58)/(len(llista_errorsres58))*100
```

```python
error_mitja59=sum(llista_errorsres59)/(len(llista_errorsres59))*100


error_mitja35=sum(llista_errorsres35)/(len(llista_errorsres35))*100
error_mitja40=sum(llista_errorsres40)/(len(llista_errorsres40))*100
error_mitja45=sum(llista_errorsres45)/(len(llista_errorsres45))*100
error_mitja50=sum(llista_errorsres50)/(len(llista_errorsres50))*100
error_mitja55=sum(llista_errorsres55)/(len(llista_errorsres55))*100
error_mitja60=sum(llista_errorsres60)/(len(llista_errorsres60))*100

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 8 dies és de {} % " .format(error_mitja8))
print("L'error mitjà a 9 dies és de {} % " .format(error_mitja9))
print("L'error mitjà a 10 dies és de {} % " .format(error_mitja10))
print("L'error mitjà a 11 dies és de {} % " .format(error_mitja11))
print("L'error mitjà a 12 dies és de {} % " .format(error_mitja12))
print("L'error mitjà a 13 dies és de {} % " .format(error_mitja13))
print("L'error mitjà a 14 dies és de {} % " .format(error_mitja14))
print("L'error mitjà a 15 dies és de {} % " .format(error_mitja15))
print("L'error mitjà a 16 dies és de {} % " .format(error_mitja16))
print("L'error mitjà a 17 dies és de {} % " .format(error_mitja17))
print("L'error mitjà a 18 dies és de {} % " .format(error_mitja18))
print("L'error mitjà a 19 dies és de {} % " .format(error_mitja19))
print("L'error mitjà a 20 dies és de {} % " .format(error_mitja20))
print("L'error mitjà a 21 dies és de {} % " .format(error_mitja21))
print("L'error mitjà a 22 dies és de {} % " .format(error_mitja22))
print("L'error mitjà a 23 dies és de {} % " .format(error_mitja23))
print("L'error mitjà a 24 dies és de {} % " .format(error_mitja24))
print("L'error mitjà a 25 dies és de {} % " .format(error_mitja25))
print("L'error mitjà a 26 dies és de {} % " .format(error_mitja26))
print("L'error mitjà a 27 dies és de {} % " .format(error_mitja27))
print("L'error mitjà a 28 dies és de {} % " .format(error_mitja28))
print("L'error mitjà a 29 dies és de {} % " .format(error_mitja29))
print("L'error mitjà a 30 dies és de {} % " .format(error_mitja30))


print("L'error mitjà a 31 dia és de {} % " .format(error_mitja31))
print("L'error mitjà a 32 dies és de {} % " .format(error_mitja32))
print("L'error mitjà a 33 dies és de {} % " .format(error_mitja33))
print("L'error mitjà a 34 dies és de {} % " .format(error_mitja34))
print("L'error mitjà a 35 dies és de {} % " .format(error_mitja35))
```

```python
print("L'error mitjà a 36 dies és de {} % " .format(error_mitja36))
print("L'error mitjà a 37 dies és de {} % " .format(error_mitja37))
print("L'error mitjà a 38 dies és de {} % " .format(error_mitja38))
print("L'error mitjà a 39 dies és de {} % " .format(error_mitja39))
print("L'error mitjà a 40 dies és de {} % " .format(error_mitja40))
print("L'error mitjà a 41 dies és de {} % " .format(error_mitja41))
print("L'error mitjà a 42 dies és de {} % " .format(error_mitja42))
print("L'error mitjà a 43 dies és de {} % " .format(error_mitja43))
print("L'error mitjà a 44 dies és de {} % " .format(error_mitja44))
print("L'error mitjà a 45 dies és de {} % " .format(error_mitja45))
print("L'error mitjà a 46 dies és de {} % " .format(error_mitja46))
print("L'error mitjà a 47 dies és de {} % " .format(error_mitja47))
print("L'error mitjà a 48 dies és de {} % " .format(error_mitja48))
print("L'error mitjà a 49 dies és de {} % " .format(error_mitja49))
print("L'error mitjà a 50 dies és de {} % " .format(error_mitja50))
print("L'error mitjà a 51 dies és de {} % " .format(error_mitja51))
print("L'error mitjà a 52 dies és de {} % " .format(error_mitja52))
print("L'error mitjà a 53 dies és de {} % " .format(error_mitja53))
print("L'error mitjà a 54 dies és de {} % " .format(error_mitja54))
print("L'error mitjà a 55 dies és de {} % " .format(error_mitja55))
print("L'error mitjà a 56 dies és de {} % " .format(error_mitja56))
print("L'error mitjà a 57 dies és de {} % " .format(error_mitja57))
print("L'error mitjà a 58 dies és de {} % " .format(error_mitja58))
print("L'error mitjà a 59 dies és de {} % " .format(error_mitja59))
print("L'error mitjà a 60 dies és de {} % " .format(error_mitja60))
```


Predicció consum a 1 dia
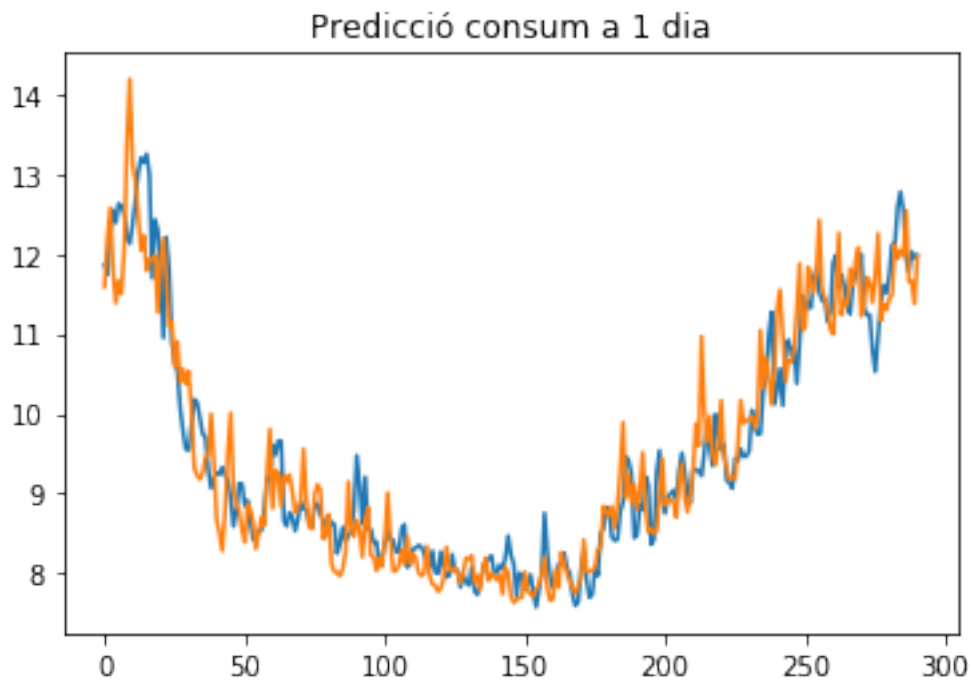
Predicció consum a 2 dies
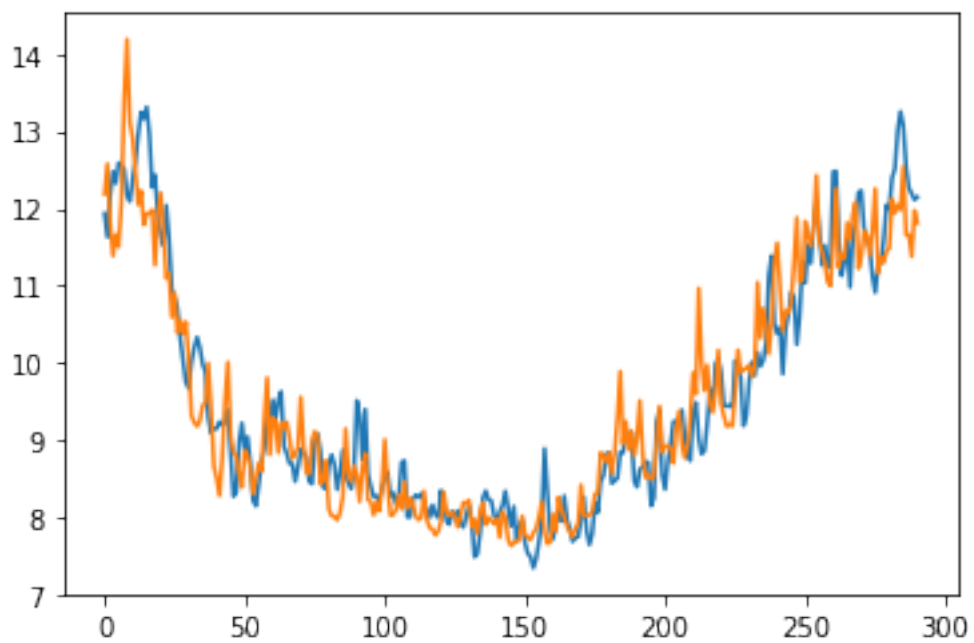
Predicció consum a 3 dies
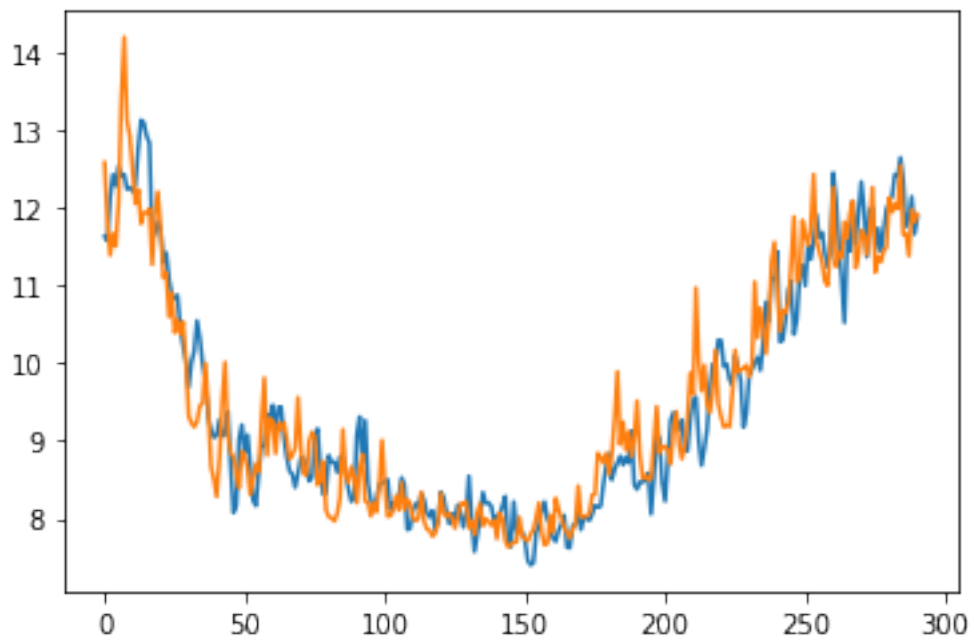
Predicció consum a 4 dies
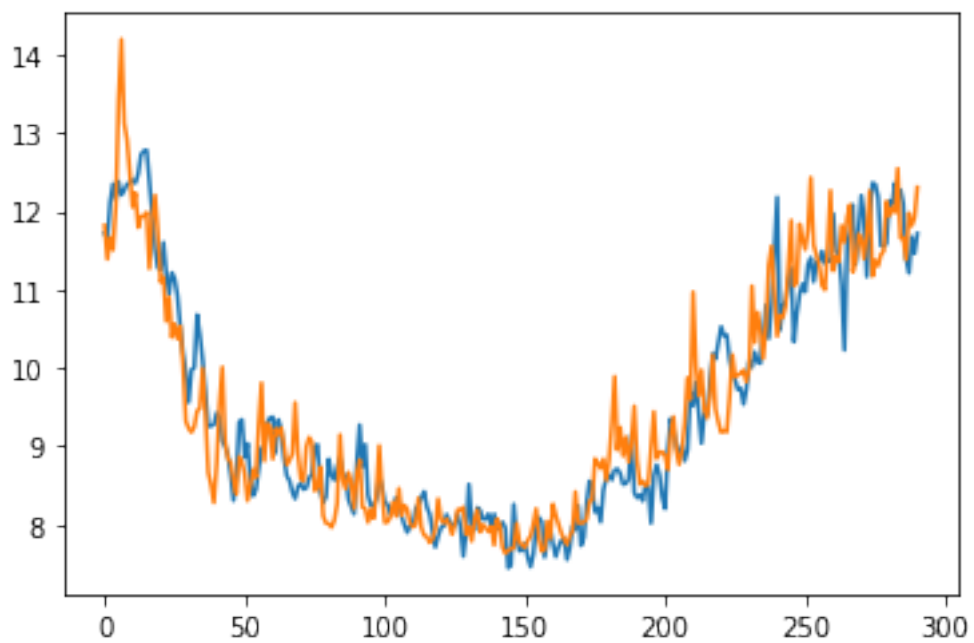
Predicció consum a 5 dies
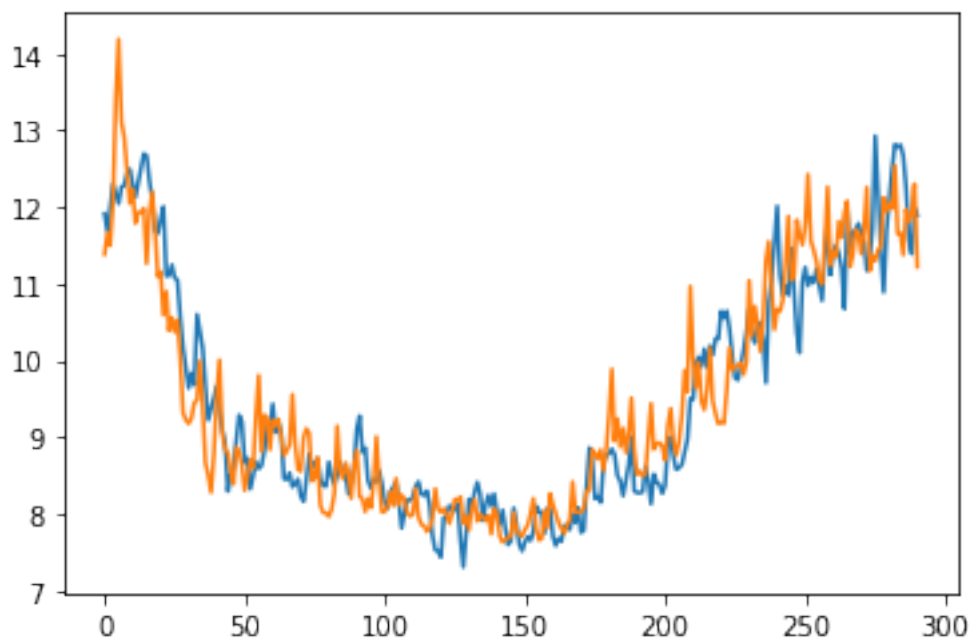
Predicció consum a 6 dies
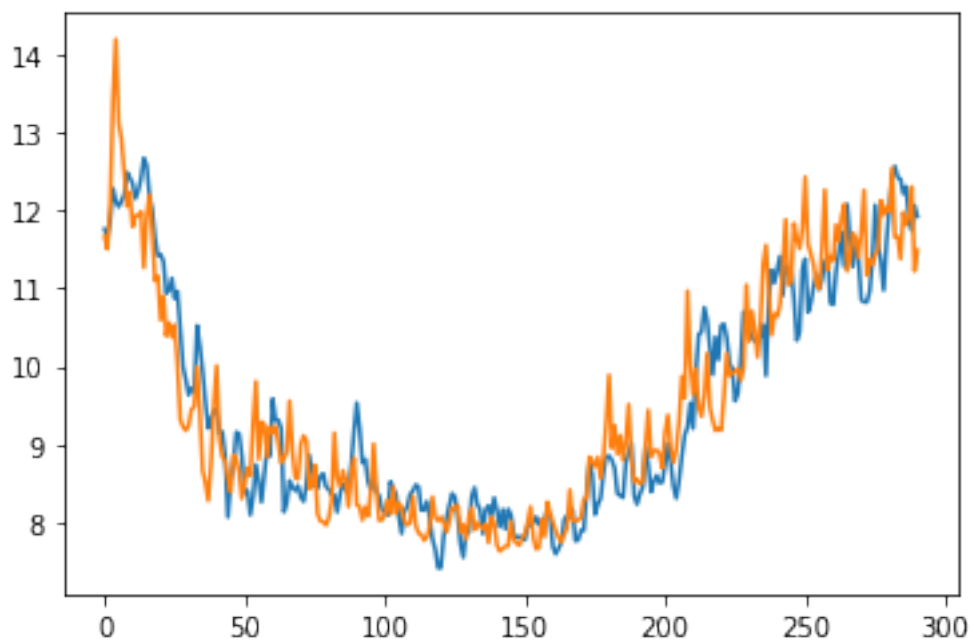
Predicció consum a 7 dies
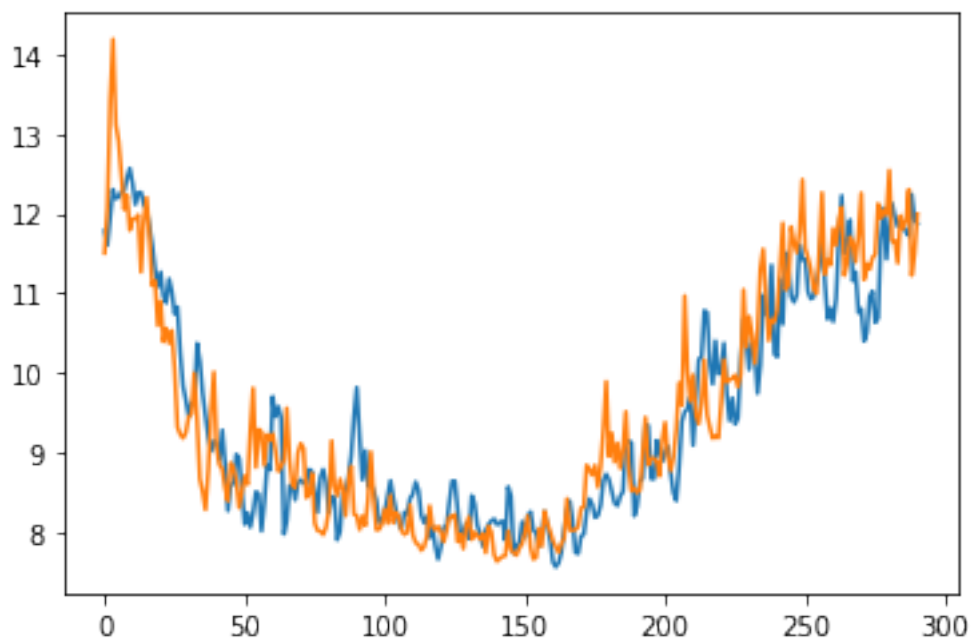
Predicció consum a 10 dies
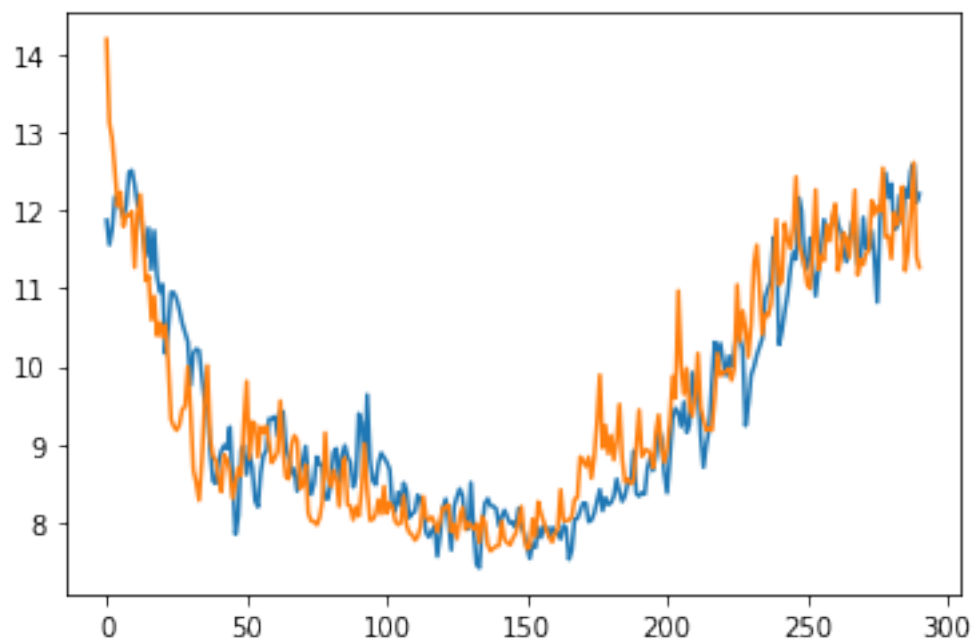
Predicció consum a 15 dies
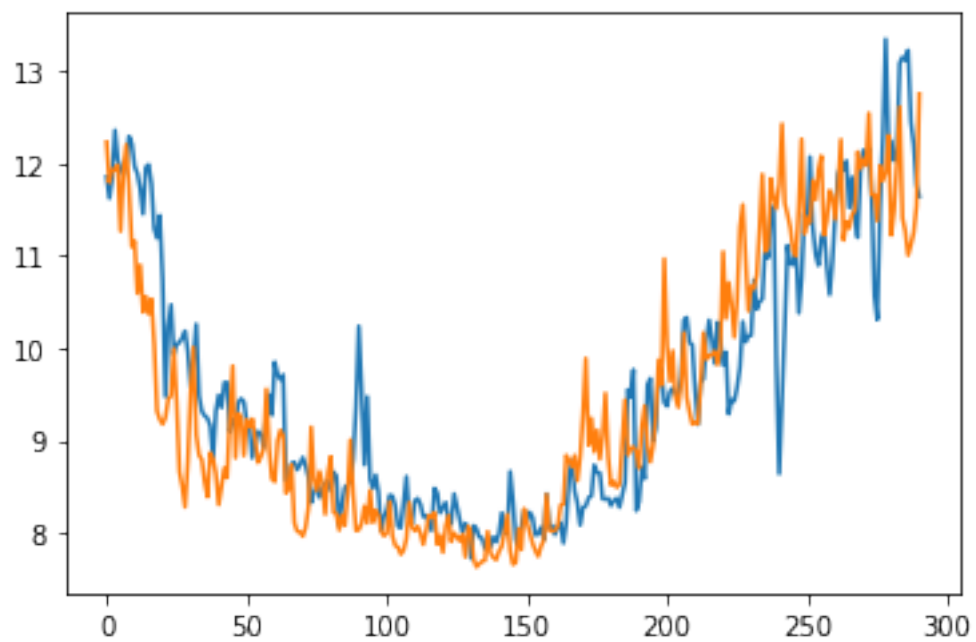
Predicció consum a 20 dies
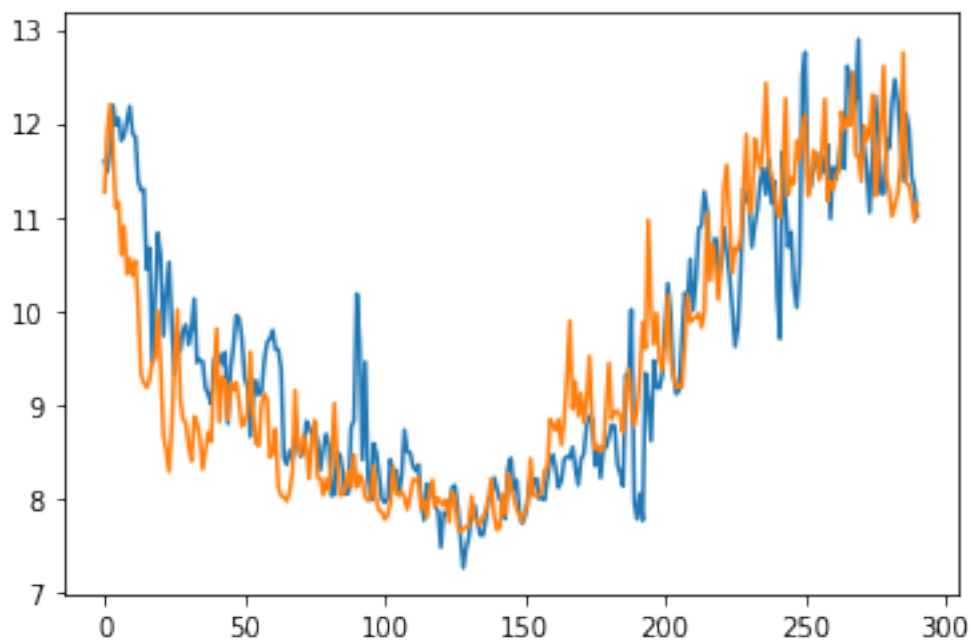
Predicció consum a 25 dies
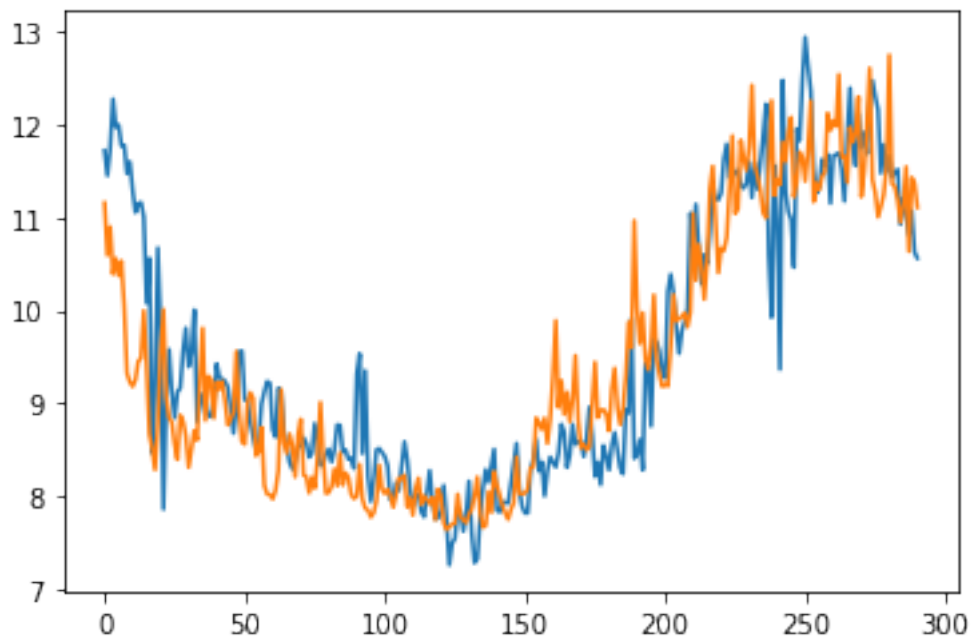
Predicció consum a 30 dies
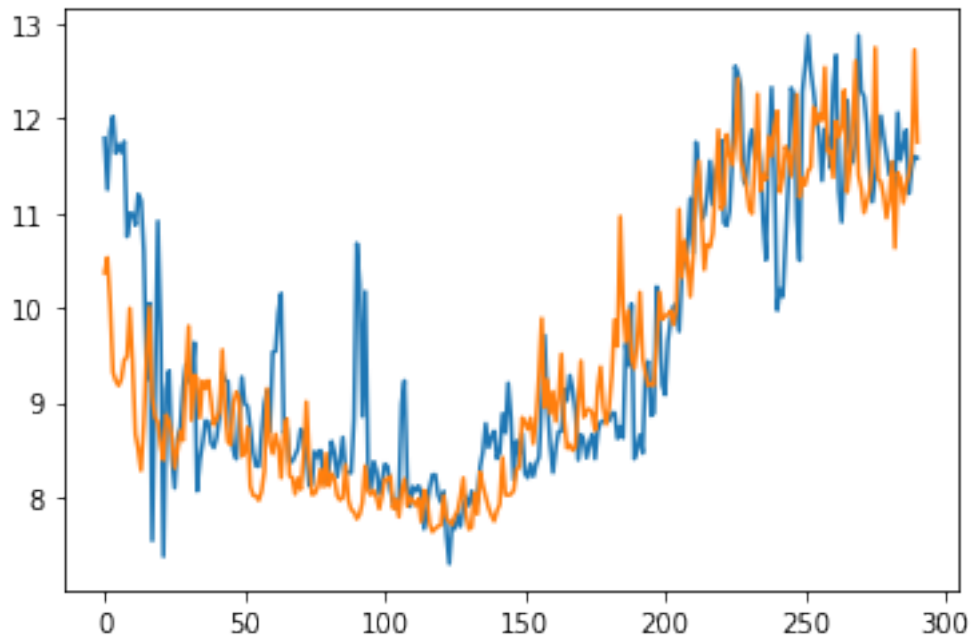
Predicció consum a 35 dies
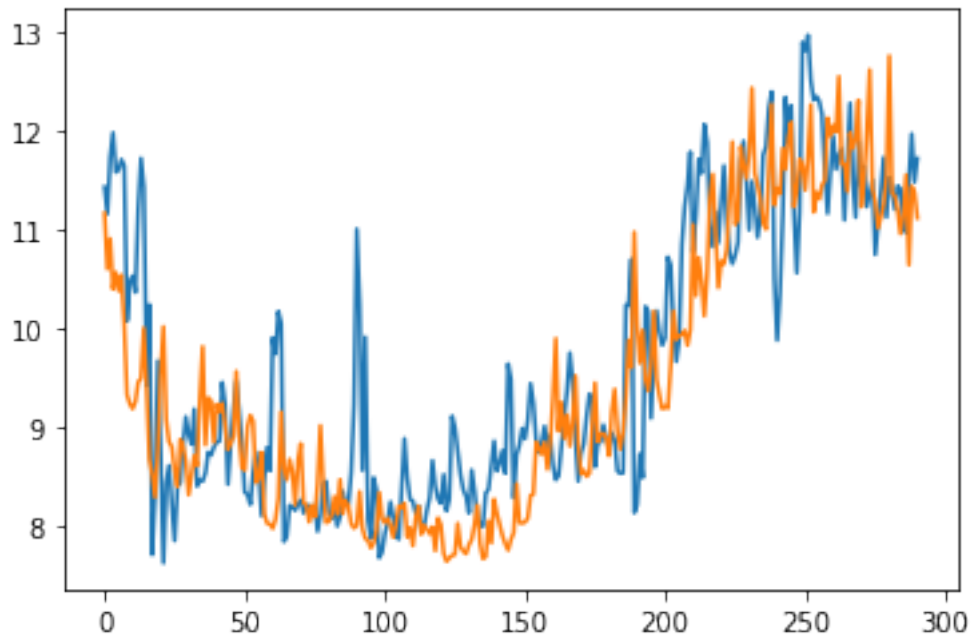
Predicció consum a 40 dies
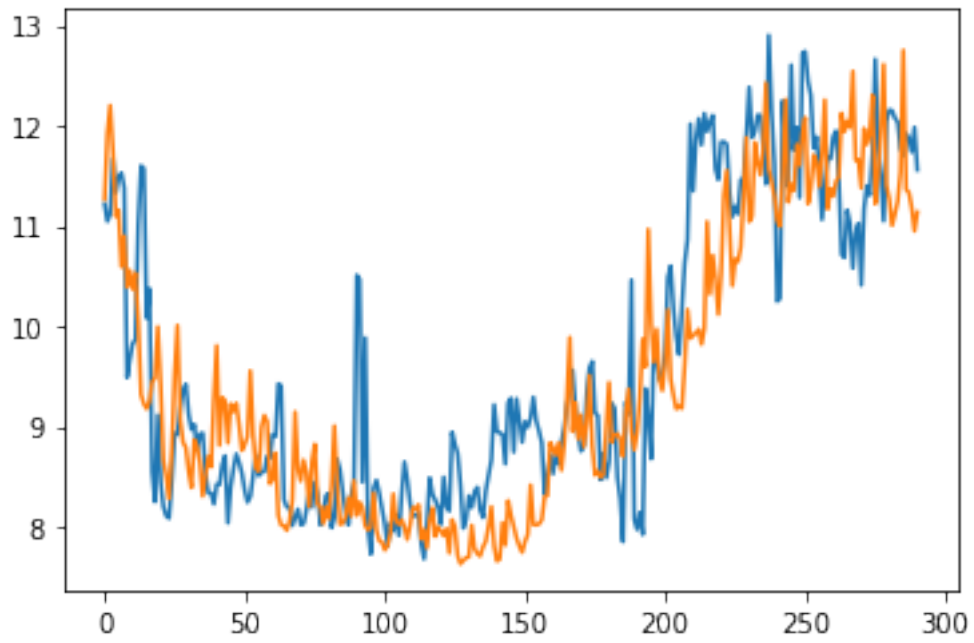
Predicció consum a 45 dies
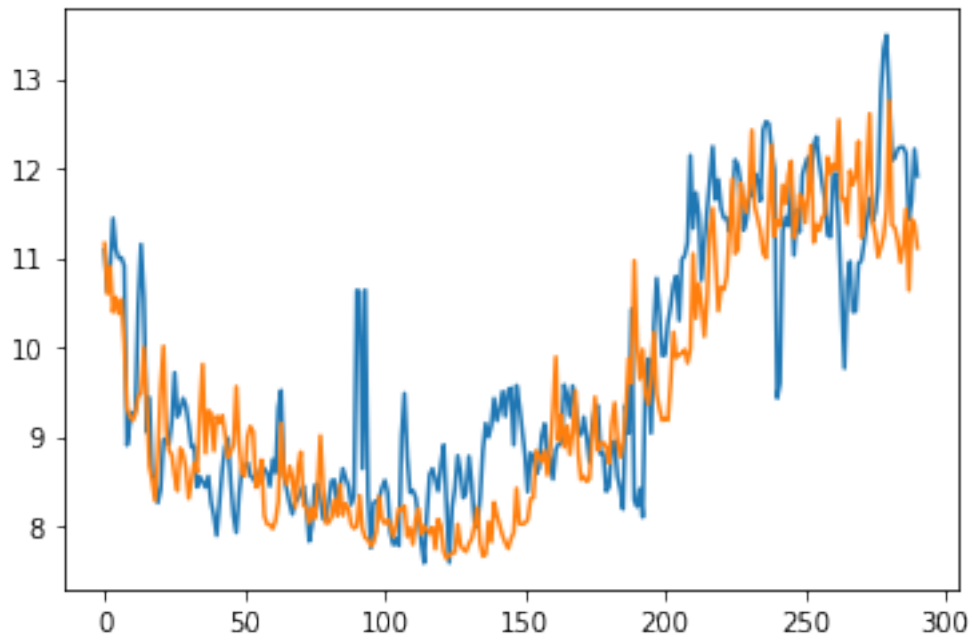
Predicció consum a 50 dies
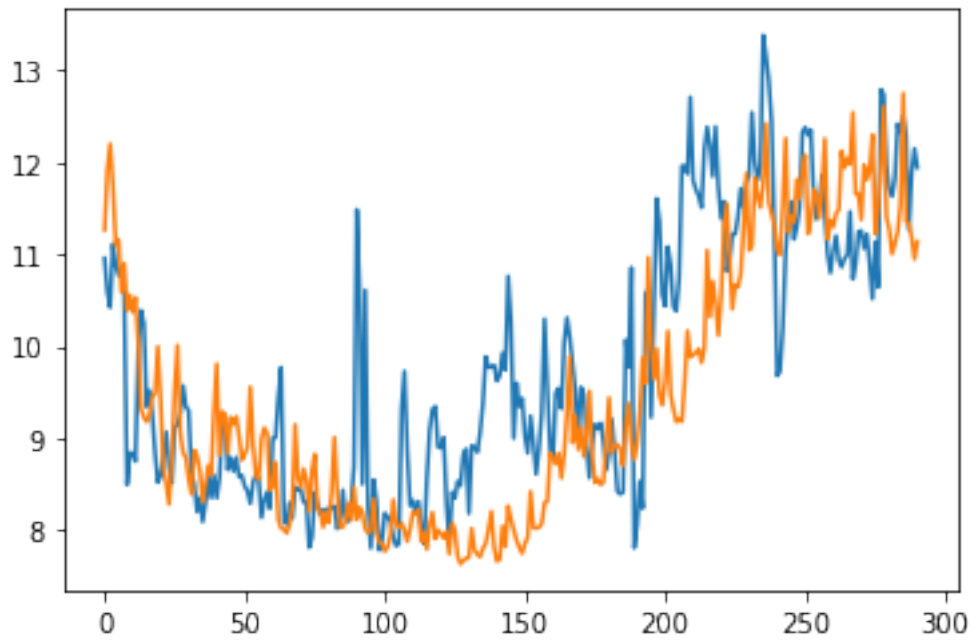
Predicció consum a 55 dies
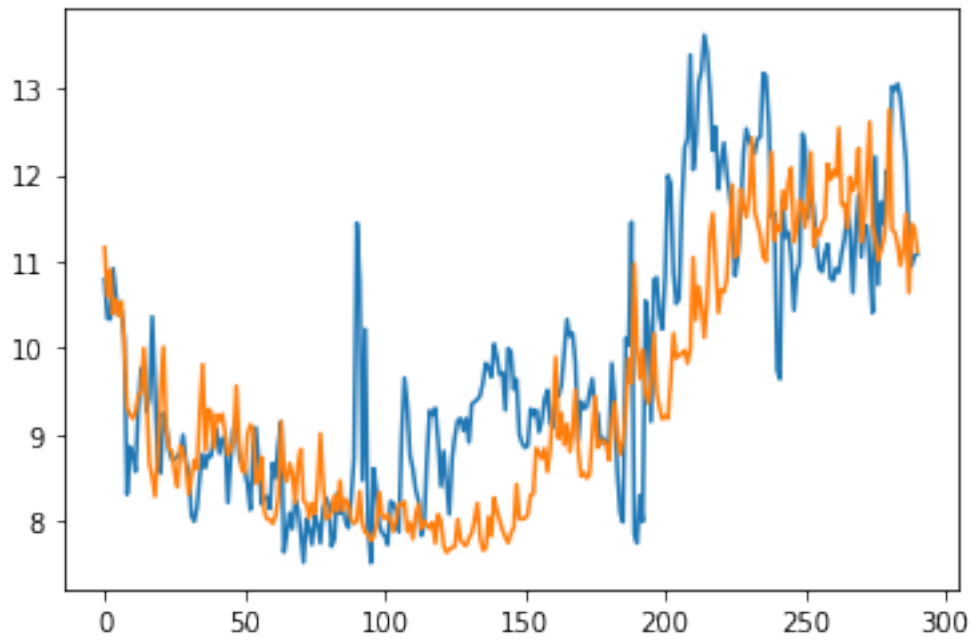
Predicció consum a 60 dies
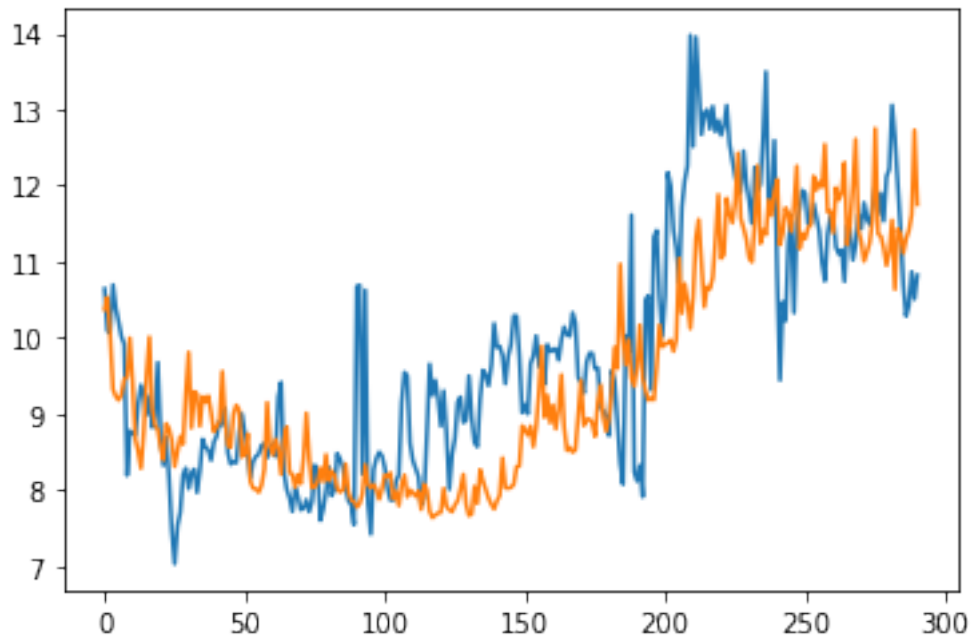
Error percentual a 1 dia

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

Error percentual a 35 dies

Error percentual a 40 dies

Error percentual a 45 dies
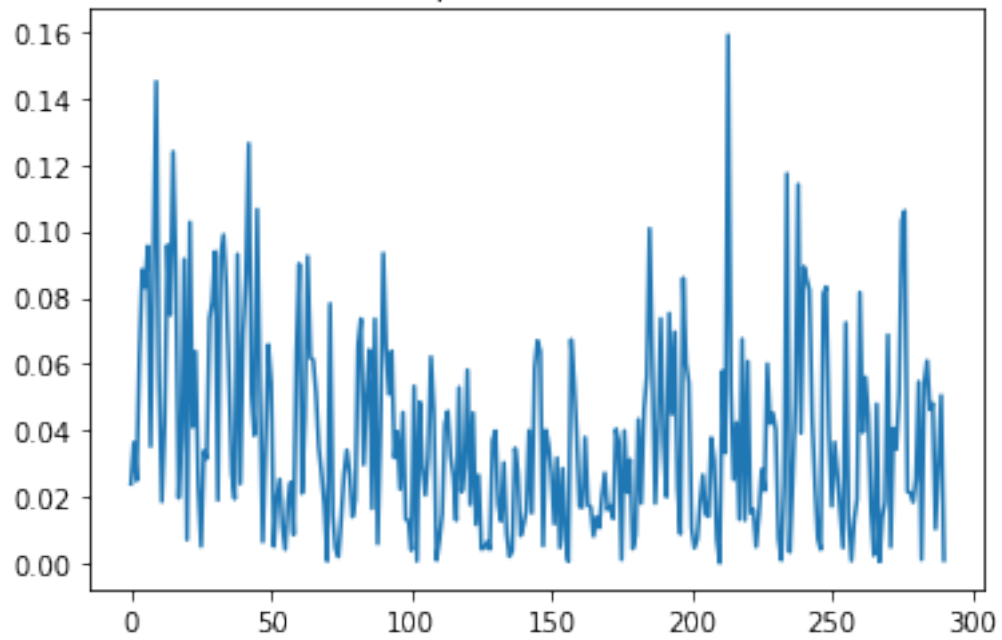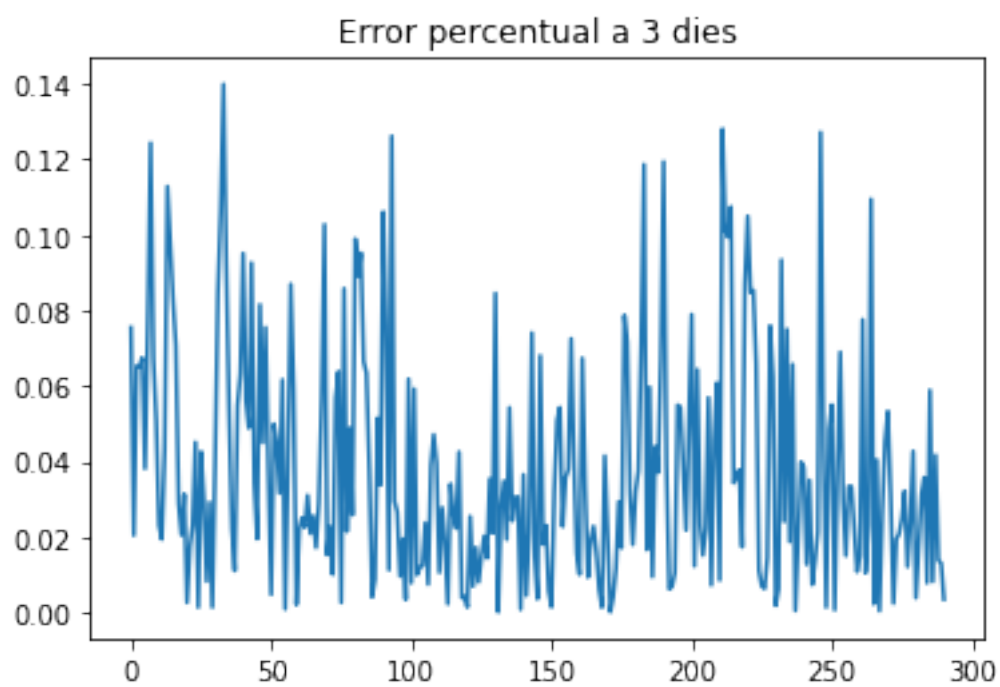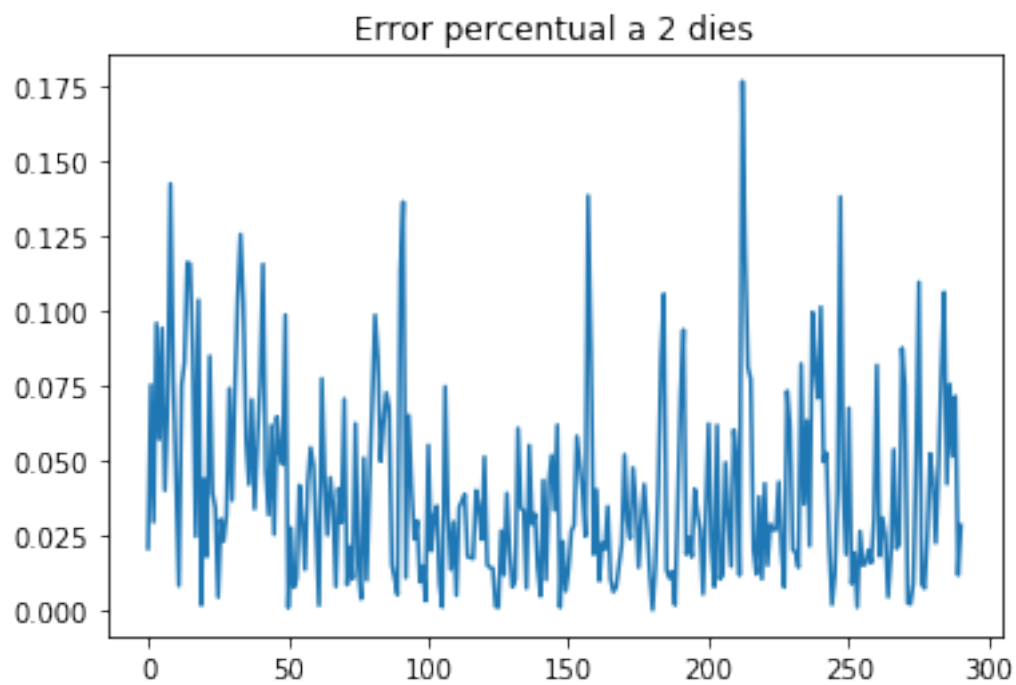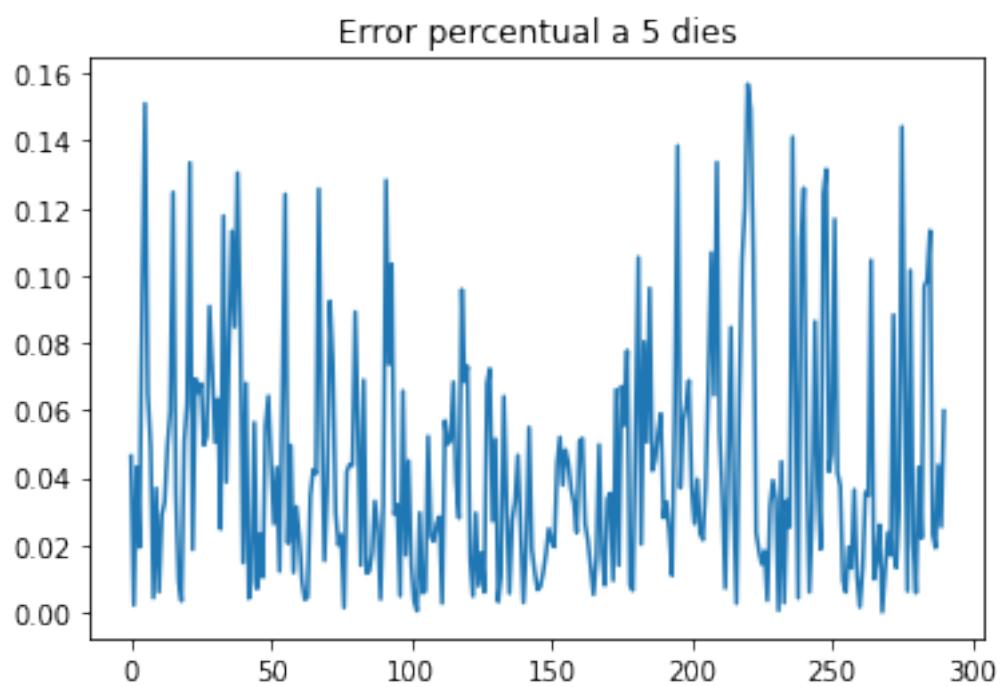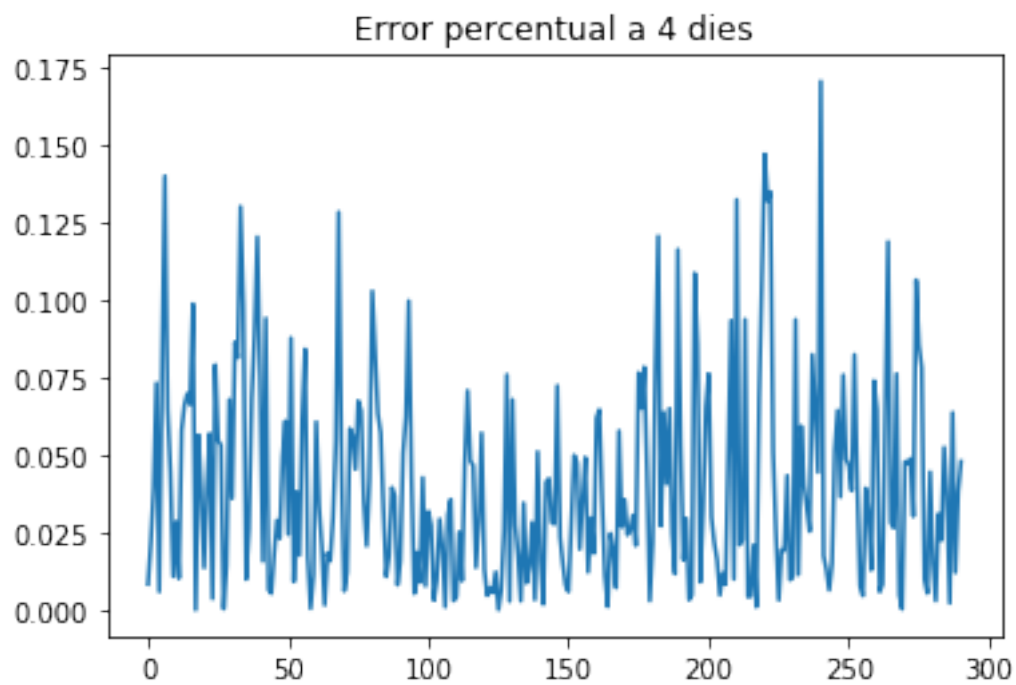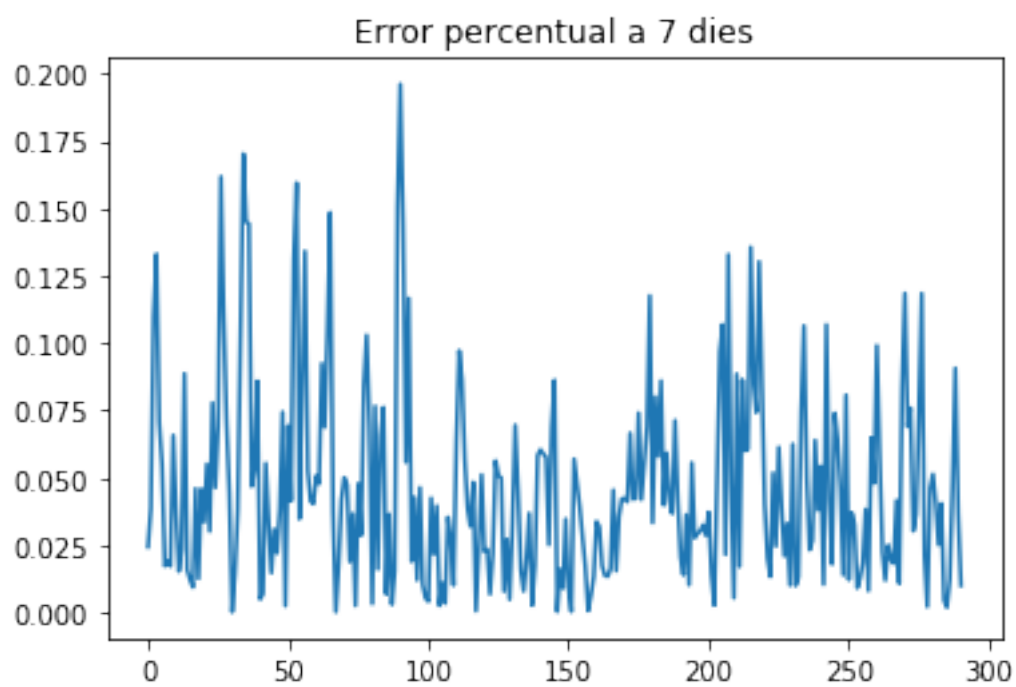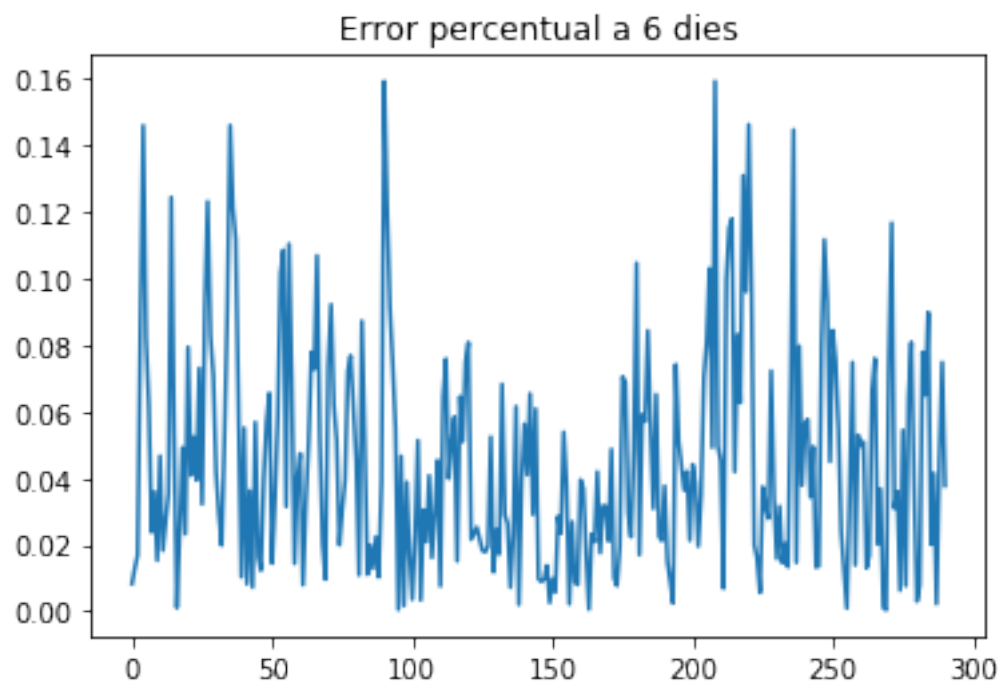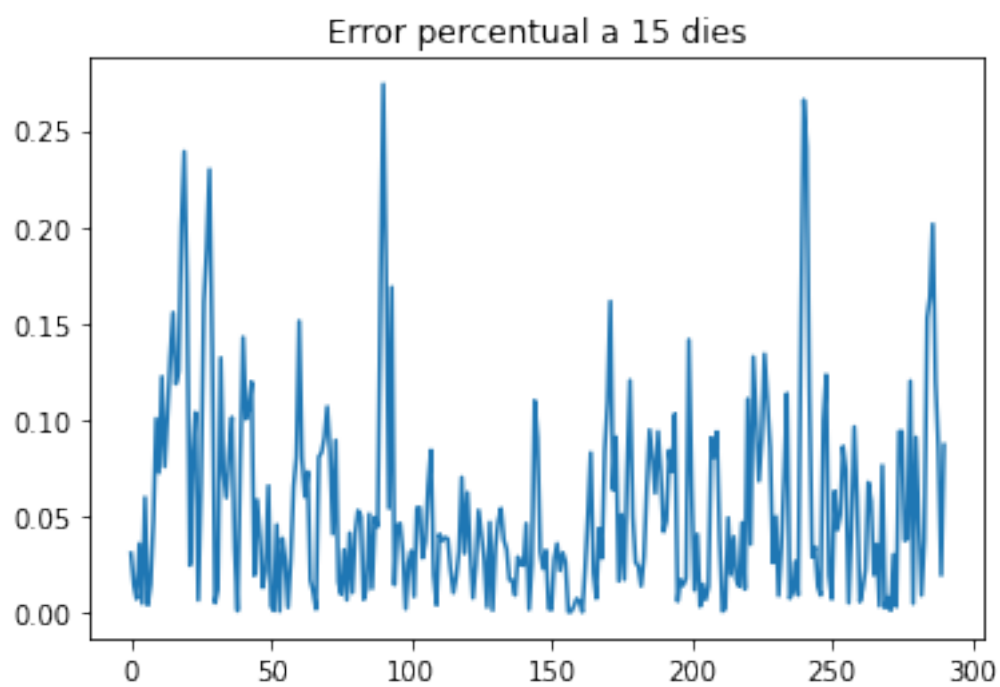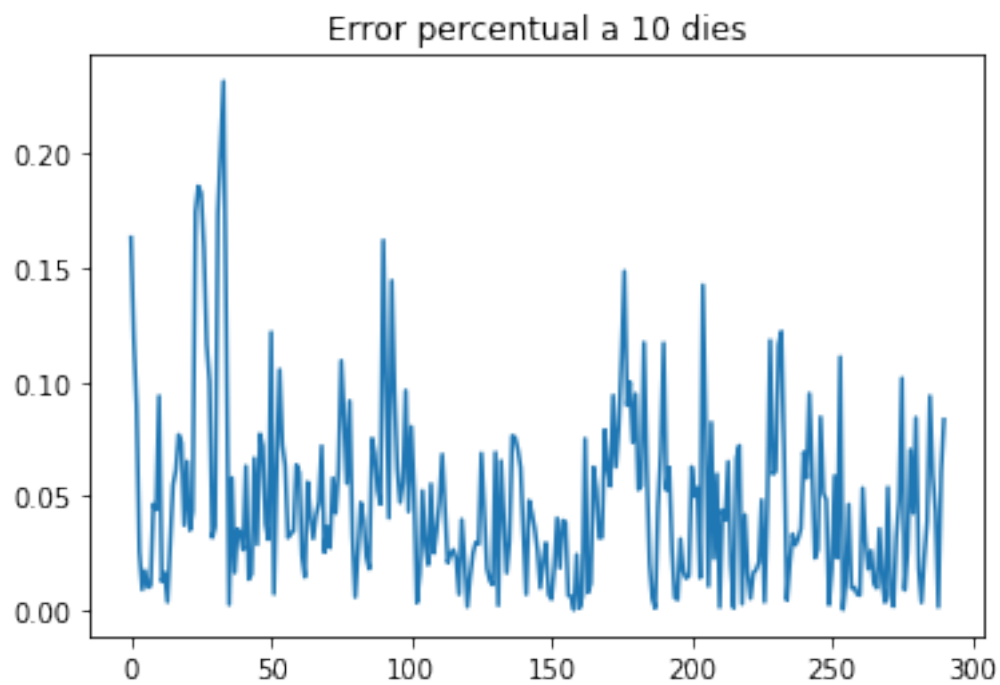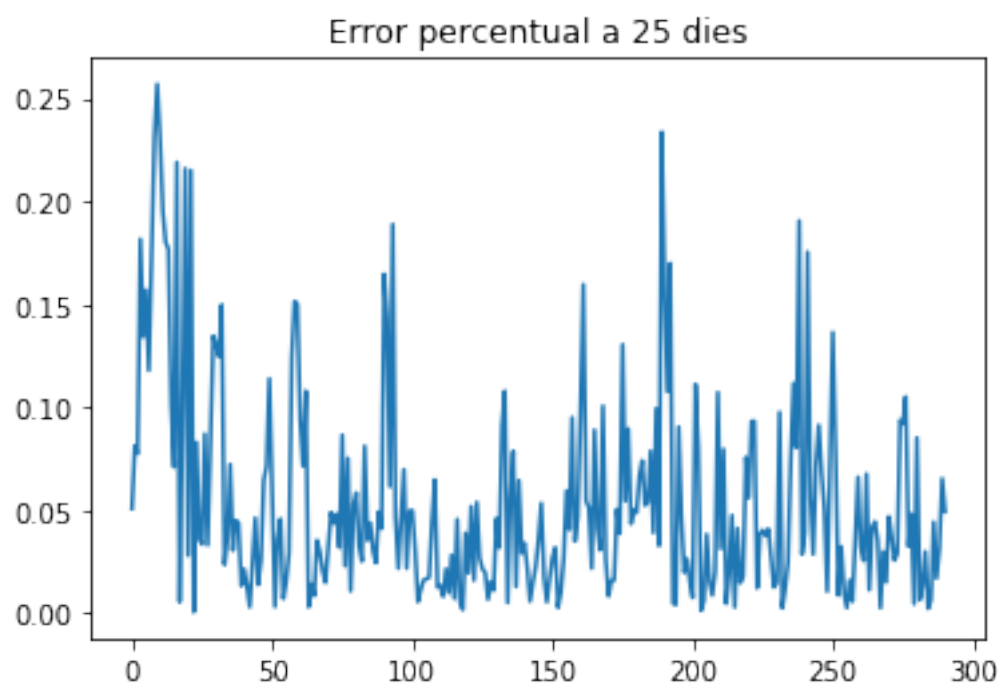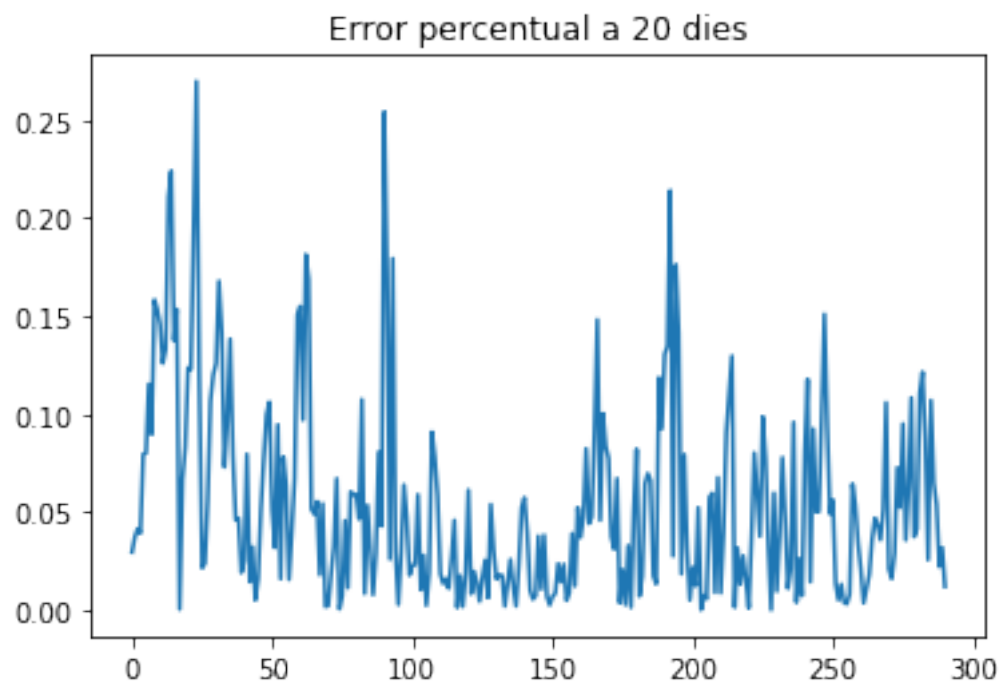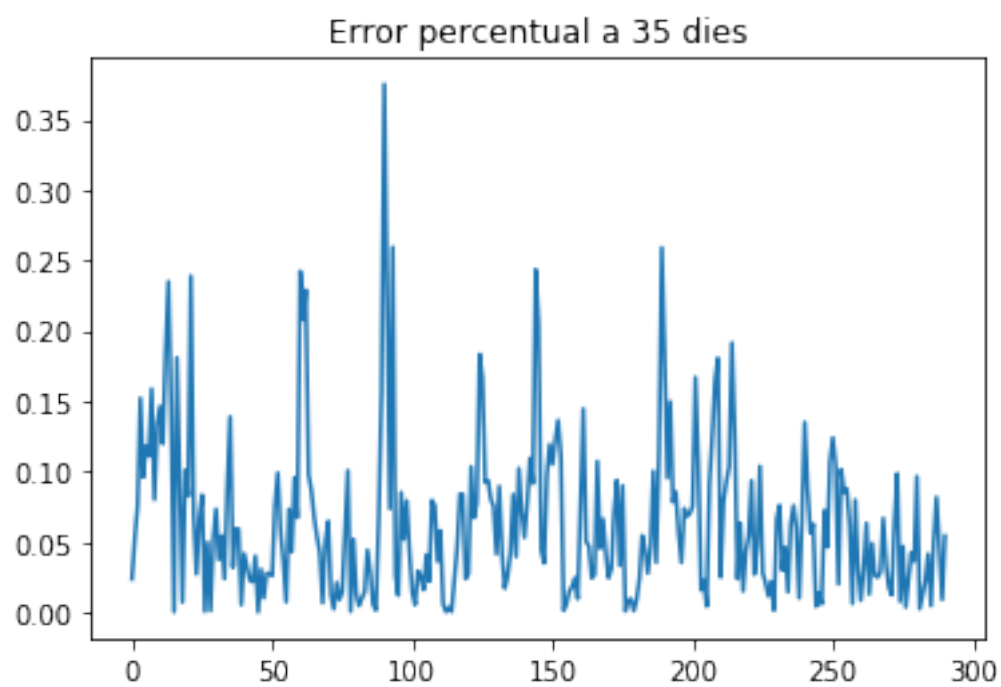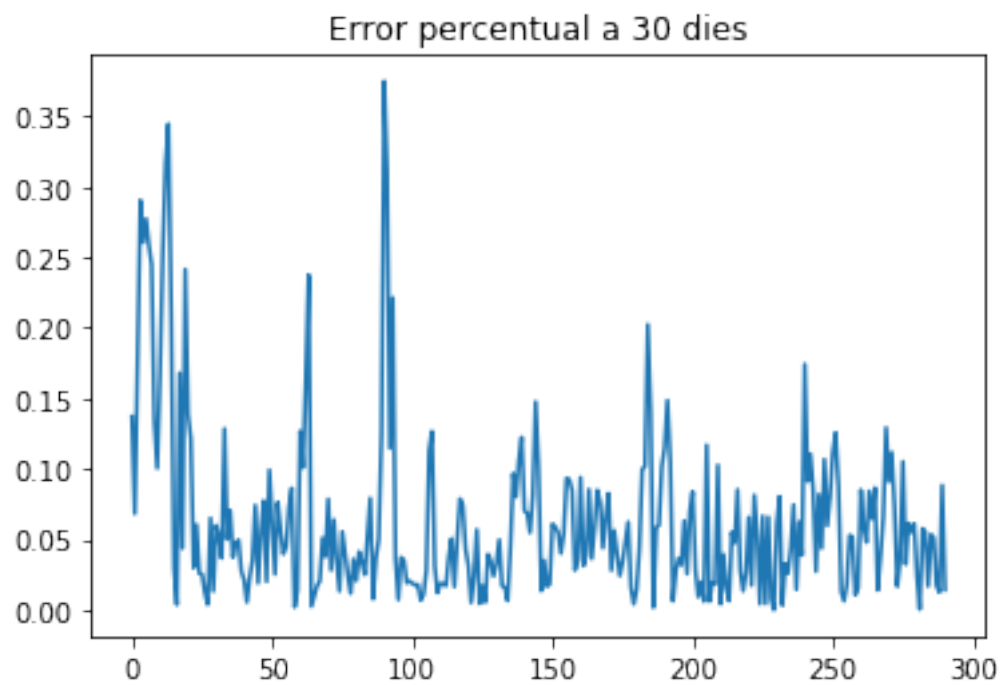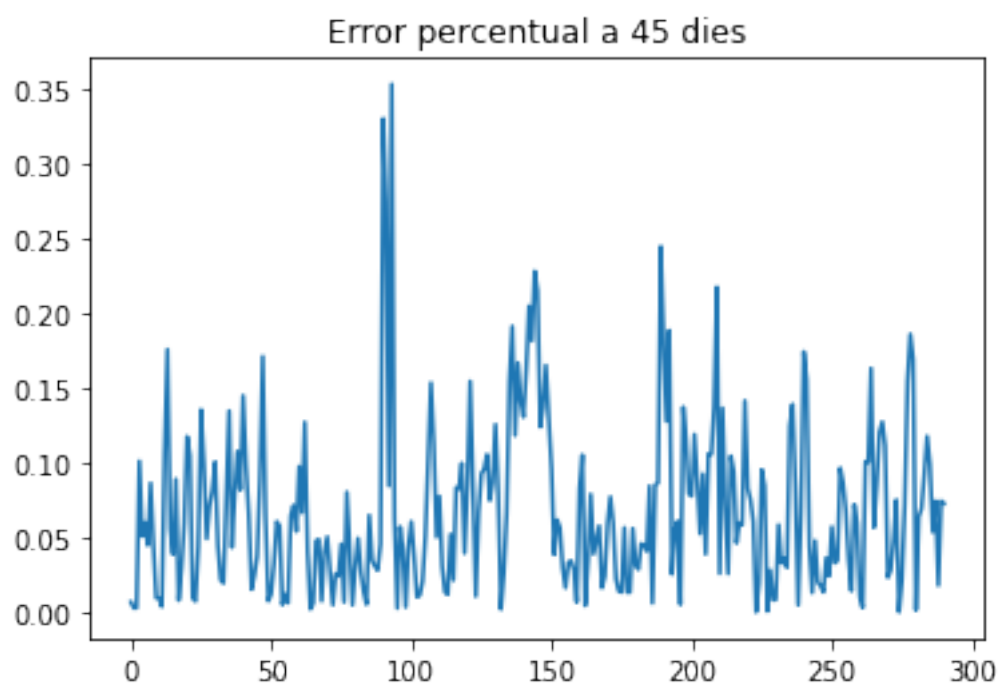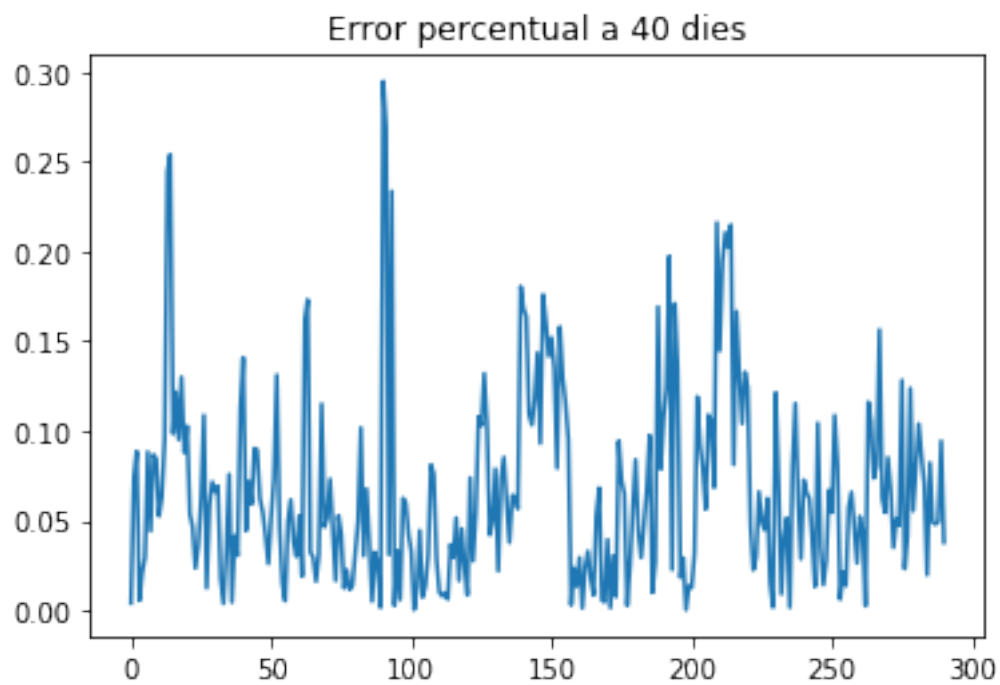
Error percentual a 50 dies

Error percentual a 55 dies
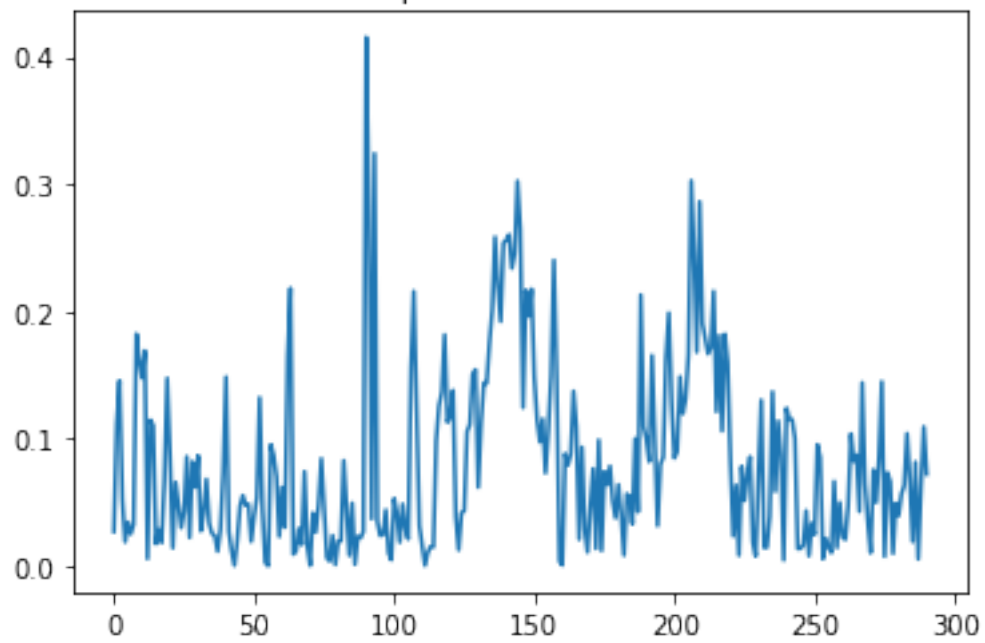
Error percentual a 60 dies
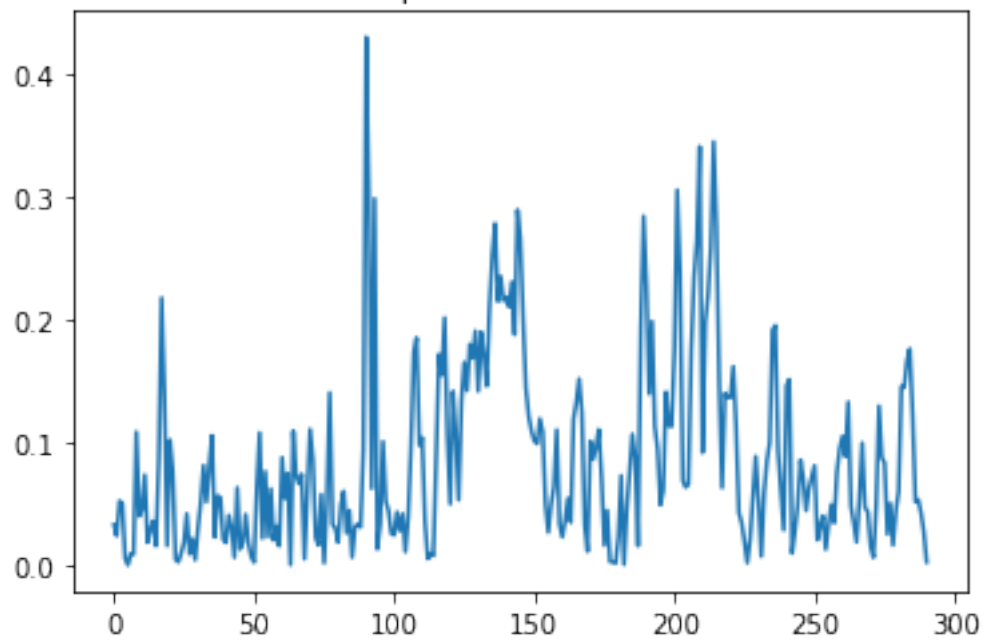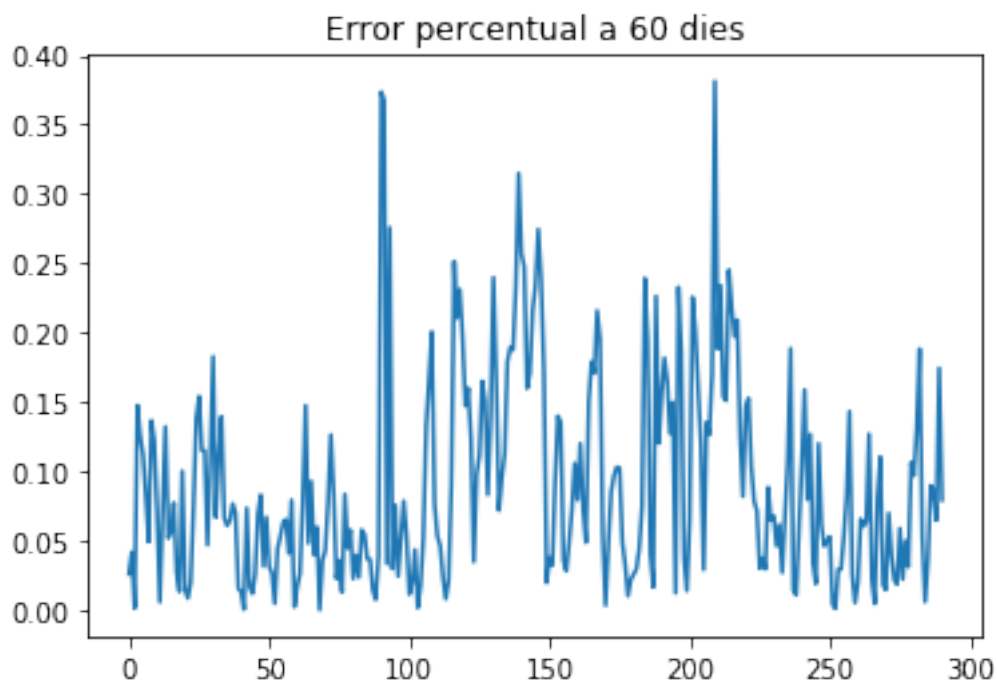
L'error mitjà a 1 dia és de 3.8180360746965833 %
L'error mitjà a 2 dies és de 4.021558355059615 %
L'error mitjà a 3 dies és de 3.823315277142801 %
L'error mitjà a 4 dies és de 4.002828499436973 %
L'error mitjà a 5 dies és de 4.384652215941731 %
L'error mitjà a 6 dies és de 4.524344998221905 %
L'error mitjà a 7 dies és de 4.640300206411297 %
L'error mitjà a 8 dies és de 5.20358785853008 %
L'error mitjà a 9 dies és de 5.194508325872169 %
L'error mitjà a 10 dies és de 4.820609584068314 %
L'error mitjà a 11 dies és de 4.434926852870058 %
L'error mitjà a 12 dies és de 4.81248688649175 %
L'error mitjà a 13 dies és de 5.0041684926517425 %
L'error mitjà a 14 dies és de 5.320460299726722 %
L'error mitjà a 15 dies és de 5.541704367089151 %
L'error mitjà a 16 dies és de 5.804199072515519 %
L'error mitjà a 17 dies és de 5.648214629218328 %
L'error mitjà a 18 dies és de 5.44400625982978 %
L'error mitjà a 19 dies és de 5.697707570970561 %
L'error mitjà a 20 dies és de 5.466465287158722 %
L'error mitjà a 21 dies és de 5.825708159292685 %
L'error mitjà a 22 dies és de 6.184565273094766 %
L'error mitjà a 23 dies és de 5.917870051131651 %
L'error mitjà a 24 dies és de 5.6626559533278416 %
L'error mitjà a 25 dies és de 5.461038489512068 %

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L'error mitjà a 26 dies és de 5.465777019943531 %
L'error mitjà a 27 dies és de 5.491520280128545 %
L'error mitjà a 28 dies és de 5.802813670702924 %
L'error mitjà a 29 dies és de 6.1145358357521395 %
L'error mitjà a 30 dies és de 6.329581147212698 %
L'error mitjà a 31 dia és de 5.949284420645927 %
L'error mitjà a 32 dies és de 6.162981455136602 %
L'error mitjà a 33 dies és de 6.182123679808553 %
L'error mitjà a 34 dies és de 6.321651533505075 %
L'error mitjà a 35 dies és de 6.455692108534395 %
L'error mitjà a 36 dies és de 6.115268308199881 %
L'error mitjà a 37 dies és de 6.442279874809209 %
L'error mitjà a 38 dies és de 6.467795482500434 %
L'error mitjà a 39 dies és de 6.539954748138095 %
L'error mitjà a 40 dies és de 6.675776298998337 %
L'error mitjà a 41 dies és de 7.049002328990378 %
L'error mitjà a 42 dies és de 7.688172886156128 %
L'error mitjà a 43 dies és de 7.498407326477663 %
L'error mitjà a 44 dies és de 7.002944871157428 %
L'error mitjà a 45 dies és de 6.819314775099253 %
L'error mitjà a 46 dies és de 6.9928338695999 %
L'error mitjà a 47 dies és de 7.396857193268208 %
L'error mitjà a 48 dies és de 7.5824311008742376 %
L'error mitjà a 49 dies és de 7.981467315519682 %
L'error mitjà a 50 dies és de 8.31966789627357 %
L'error mitjà a 51 dies és de 8.551658342138573 %
L'error mitjà a 52 dies és de 8.252460998123505 %
L'error mitjà a 53 dies és de 8.066075045588276 %
L'error mitjà a 54 dies és de 8.2257721797374 %
L'error mitjà a 55 dies és de 8.720432815253961 %
L'error mitjà a 56 dies és de 9.306081940956123 %
L'error mitjà a 57 dies és de 9.638811961213346 %
L'error mitjà a 58 dies és de 9.29849976026591 %
L'error mitjà a 59 dies és de 9.093762423450075 %
L'error mitjà a 60 dies és de 9.124222568687895 %


In [27]: (error_mitja1+error_mitja2+error_mitja3+error_mitja4+error_mitja5+error_mitja6+error_
Out[27]: 6.36309720838518

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:
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