MM2b _Xarxa_walkforard_normalitzat_multivariate_MULTISTEP30_tempmin walkforwardaugment-Copy2

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
```

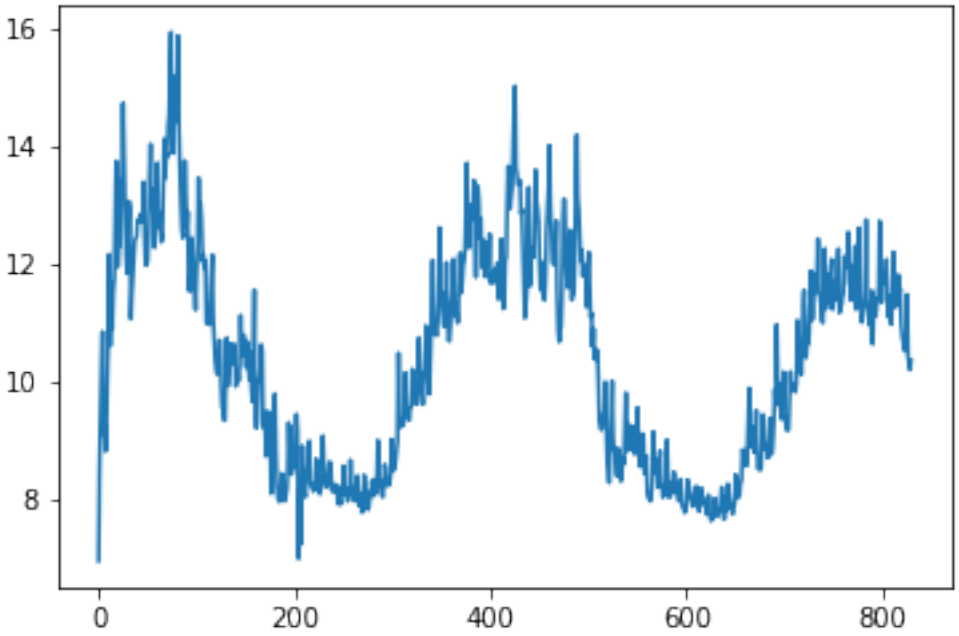
```
In [3]: #Ens quedem amb date i energy_sum, ordenem valors per data i resetejem index
        daily_dia=daily[['date','energy_sum','apparentTemperatureMax','apparentTemperatureMin'
        daily_dia.head(5)
```

```
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  weekday
0                    2.18        3
1                    7.01        4
2                    4.84        5
3                    4.69        6
4                    2.94        7
```

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



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

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

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

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


daily_dia
```

Out[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	weekday	y+1	y+2	y+3	\
0	2.18	3	8.536480	9.499781	10.267707	
1	7.01	4	9.499781	10.267707	10.850805	
2	4.84	5	10.267707	10.850805	9.103382	
3	4.69	6	10.850805	9.103382	9.274873	
4	2.94	7	9.103382	9.274873	8.813513	
5	1.31	1	9.274873	8.813513	9.227707	
6	3.39	2	8.813513	9.227707	10.145910	
7	3.34	3	9.227707	10.145910	10.780273	
8	5.29	4	10.145910	10.780273	12.163127	
9	0.46	5	10.780273	12.163127	10.609714	

10	4.71	6	12.163127	10.609714	11.673417
11	1.03	7	10.609714	11.673417	10.889362
12	-1.69	1	11.673417	10.889362	11.525150
13	-1.61	2	10.889362	11.525150	11.759837
14	0.94	3	11.525150	11.759837	12.633801
15	0.63	4	11.759837	12.633801	13.749174
16	-1.42	5	12.633801	13.749174	11.951958
17	-3.42	6	13.749174	11.951958	11.957446
18	0.11	7	11.951958	11.957446	12.392776
19	-0.64	1	11.957446	12.392776	12.307079
20	0.22	2	12.392776	12.307079	13.376080
21	0.78	3	12.307079	13.376080	13.511968
22	1.07	4	13.376080	13.511968	14.732271
23	-2.65	5	13.511968	14.732271	13.774471
24	-3.56	6	14.732271	13.774471	12.709106
25	-4.12	7	13.774471	12.709106	12.148570
26	-3.67	1	12.709106	12.148570	11.839403
27	1.68	2	12.148570	11.839403	12.254989
28	3.84	3	11.839403	12.254989	13.065317
29	5.37	4	12.254989	13.065317	12.949429
..	...	...	...	...	...
800	0.18	3	11.685169	11.857957	11.710582
801	0.61	4	11.857957	11.710582	12.078164
802	0.29	5	11.710582	12.078164	11.280011
803	1.10	6	12.078164	11.280011	11.095584
804	3.21	7	11.280011	11.095584	11.415105
805	1.96	1	11.095584	11.415105	11.445403
806	1.12	2	11.415105	11.445403	10.972318
807	1.03	3	11.445403	10.972318	11.569300
808	1.96	4	10.972318	11.569300	12.202967
809	-0.86	5	11.569300	12.202967	11.264175
810	2.19	6	12.202967	11.264175	11.452649
811	1.38	7	11.264175	11.452649	11.679099
812	0.89	1	11.452649	11.679099	11.285737
813	-0.57	2	11.679099	11.285737	11.816914
814	-1.20	3	11.285737	11.816914	11.490470
815	0.05	4	11.816914	11.490470	11.582159
816	0.45	5	11.490470	11.582159	10.979566
817	1.77	6	11.582159	10.979566	10.781898
818	-1.03	7	10.979566	10.781898	10.674624
819	2.84	1	10.781898	10.674624	10.573835
820	3.83	2	10.674624	10.573835	10.518126
821	2.65	3	10.573835	10.518126	10.776242
822	3.95	4	10.518126	10.776242	11.480411
823	0.19	5	10.776242	11.480411	10.411403
824	1.59	6	11.480411	10.411403	10.294997
825	5.53	7	10.411403	10.294997	10.202945
826	5.52	1	10.294997	10.202945	10.356350

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827                  3.89        2  10.202945  10.356350        NaN
828                  1.67        3  10.356350        NaN        NaN
829                  1.41        4        NaN        NaN        NaN

           y+4  ...  weekday(t-5)  weekday(t-6)  weekday(t-7)  weekday(t-8)  \
0    10.850805  ...           NaN           NaN           NaN           NaN
1     9.103382  ...           NaN           NaN           NaN           NaN
2     9.274873  ...           NaN           NaN           NaN           NaN
3     8.813513  ...           NaN           NaN           NaN           NaN
4     9.227707  ...           NaN           NaN           NaN           NaN
5    10.145910  ...           3.0           NaN           NaN           NaN
6    10.780273  ...           4.0           3.0           NaN           NaN
7    12.163127  ...           5.0           4.0           3.0           NaN
8    10.609714  ...           6.0           5.0           4.0           3.0
9    11.673417  ...           7.0           6.0           5.0           4.0
10   10.889362  ...           1.0           7.0           6.0           5.0
11   11.525150  ...           2.0           1.0           7.0           6.0
12   11.759837  ...           3.0           2.0           1.0           7.0
13   12.633801  ...           4.0           3.0           2.0           1.0
14   13.749174  ...           5.0           4.0           3.0           2.0
15   11.951958  ...           6.0           5.0           4.0           3.0
16   11.957446  ...           7.0           6.0           5.0           4.0
17   12.392776  ...           1.0           7.0           6.0           5.0
18   12.307079  ...           2.0           1.0           7.0           6.0
19   13.376080  ...           3.0           2.0           1.0           7.0
20   13.511968  ...           4.0           3.0           2.0           1.0
21   14.732271  ...           5.0           4.0           3.0           2.0
22   13.774471  ...           6.0           5.0           4.0           3.0
23   12.709106  ...           7.0           6.0           5.0           4.0
24   12.148570  ...           1.0           7.0           6.0           5.0
25   11.839403  ...           2.0           1.0           7.0           6.0
26   12.254989  ...           3.0           2.0           1.0           7.0
27   13.065317  ...           4.0           3.0           2.0           1.0
28   12.949429  ...           5.0           4.0           3.0           2.0
29   11.065577  ...           6.0           5.0           4.0           3.0
..         ...  ...           ...           ...           ...           ...
800  12.078164  ...           5.0           4.0           3.0           2.0
801  11.280011  ...           6.0           5.0           4.0           3.0
802  11.095584  ...           7.0           6.0           5.0           4.0
803  11.415105  ...           1.0           7.0           6.0           5.0
804  11.445403  ...           2.0           1.0           7.0           6.0
805  10.972318  ...           3.0           2.0           1.0           7.0
806  11.569300  ...           4.0           3.0           2.0           1.0
807  12.202967  ...           5.0           4.0           3.0           2.0
808  11.264175  ...           6.0           5.0           4.0           3.0
809  11.452649  ...           7.0           6.0           5.0           4.0
810  11.679099  ...           1.0           7.0           6.0           5.0
811  11.285737  ...           2.0           1.0           7.0           6.0
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```
812  11.816914  ...           3.0           2.0           1.0           7.0
813  11.490470  ...           4.0           3.0           2.0           1.0
814  11.582159  ...           5.0           4.0           3.0           2.0
815  10.979566  ...           6.0           5.0           4.0           3.0
816  10.781898  ...           7.0           6.0           5.0           4.0
817  10.674624  ...           1.0           7.0           6.0           5.0
818  10.573835  ...           2.0           1.0           7.0           6.0
819  10.518126  ...           3.0           2.0           1.0           7.0
820  10.776242  ...           4.0           3.0           2.0           1.0
821  11.480411  ...           5.0           4.0           3.0           2.0
822  10.411403  ...           6.0           5.0           4.0           3.0
823  10.294997  ...           7.0           6.0           5.0           4.0
824  10.202945  ...           1.0           7.0           6.0           5.0
825  10.356350  ...           2.0           1.0           7.0           6.0
826        NaN  ...           3.0           2.0           1.0           7.0
827        NaN  ...           4.0           3.0           2.0           1.0
828        NaN  ...           5.0           4.0           3.0           2.0
829        NaN  ...           6.0           5.0           4.0           3.0

     weekday(t-9)  weekday(t-10)  weekday(t-11)  weekday(t-12)  weekday(t-13)  \
0             NaN            NaN            NaN            NaN            NaN
1             NaN            NaN            NaN            NaN            NaN
2             NaN            NaN            NaN            NaN            NaN
3             NaN            NaN            NaN            NaN            NaN
4             NaN            NaN            NaN            NaN            NaN
5             NaN            NaN            NaN            NaN            NaN
6             NaN            NaN            NaN            NaN            NaN
7             NaN            NaN            NaN            NaN            NaN
8             NaN            NaN            NaN            NaN            NaN
9             3.0            NaN            NaN            NaN            NaN
10            4.0            3.0            NaN            NaN            NaN
11            5.0            4.0            3.0            NaN            NaN
12            6.0            5.0            4.0            3.0            NaN
13            7.0            6.0            5.0            4.0            3.0
14            1.0            7.0            6.0            5.0            4.0
15            2.0            1.0            7.0            6.0            5.0
16            3.0            2.0            1.0            7.0            6.0
17            4.0            3.0            2.0            1.0            7.0
18            5.0            4.0            3.0            2.0            1.0
19            6.0            5.0            4.0            3.0            2.0
20            7.0            6.0            5.0            4.0            3.0
21            1.0            7.0            6.0            5.0            4.0
22            2.0            1.0            7.0            6.0            5.0
23            3.0            2.0            1.0            7.0            6.0
24            4.0            3.0            2.0            1.0            7.0
25            5.0            4.0            3.0            2.0            1.0
26            6.0            5.0            4.0            3.0            2.0
27            7.0            6.0            5.0            4.0            3.0
```

28	1.0	7.0	6.0	5.0	4.0
29	2.0	1.0	7.0	6.0	5.0
..	...	...	...	...	...
800	1.0	7.0	6.0	5.0	4.0
801	2.0	1.0	7.0	6.0	5.0
802	3.0	2.0	1.0	7.0	6.0
803	4.0	3.0	2.0	1.0	7.0
804	5.0	4.0	3.0	2.0	1.0
805	6.0	5.0	4.0	3.0	2.0
806	7.0	6.0	5.0	4.0	3.0
807	1.0	7.0	6.0	5.0	4.0
808	2.0	1.0	7.0	6.0	5.0
809	3.0	2.0	1.0	7.0	6.0
810	4.0	3.0	2.0	1.0	7.0
811	5.0	4.0	3.0	2.0	1.0
812	6.0	5.0	4.0	3.0	2.0
813	7.0	6.0	5.0	4.0	3.0
814	1.0	7.0	6.0	5.0	4.0
815	2.0	1.0	7.0	6.0	5.0
816	3.0	2.0	1.0	7.0	6.0
817	4.0	3.0	2.0	1.0	7.0
818	5.0	4.0	3.0	2.0	1.0
819	6.0	5.0	4.0	3.0	2.0
820	7.0	6.0	5.0	4.0	3.0
821	1.0	7.0	6.0	5.0	4.0
822	2.0	1.0	7.0	6.0	5.0
823	3.0	2.0	1.0	7.0	6.0
824	4.0	3.0	2.0	1.0	7.0
825	5.0	4.0	3.0	2.0	1.0
826	6.0	5.0	4.0	3.0	2.0
827	7.0	6.0	5.0	4.0	3.0
828	1.0	7.0	6.0	5.0	4.0
829	2.0	1.0	7.0	6.0	5.0

	weekday(t-14)
0	NaN
1	NaN
2	NaN
3	NaN
4	NaN
5	NaN
6	NaN
7	NaN
8	NaN
9	NaN
10	NaN
11	NaN
12	NaN

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

```
[830 rows x 92 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	...	weekday(t-5)	\
0	9.274873	8.813513	9.227707	10.145910	...	NaN	
1	8.813513	9.227707	10.145910	10.780273	...	NaN	
2	9.227707	10.145910	10.780273	12.163127	...	NaN	
3	10.145910	10.780273	12.163127	10.609714	...	NaN	
4	10.780273	12.163127	10.609714	11.673417	...	NaN	

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

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

```
[5 rows x 87 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  ...  weekday(t-5)  \
14  11.957446  12.392776  12.307079  13.376080  ...           5.0
15  12.392776  12.307079  13.376080  13.511968  ...           6.0
16  12.307079  13.376080  13.511968  14.732271  ...           7.0
17  13.376080  13.511968  14.732271  13.774471  ...           1.0
18  13.511968  14.732271  13.774471  12.709106  ...           2.0

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

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

[5 rows x 87 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  \
795   11.409880  11.620778  12.729659  11.753871  11.344805  11.800777
796   11.620778  12.729659  11.753871  11.344805  11.800777  11.685169
797   12.729659  11.753871  11.344805  11.800777  11.685169  11.857957
798   11.753871  11.344805  11.800777  11.685169  11.857957  11.710582
799   11.344805  11.800777  11.685169  11.857957  11.710582  12.078164

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

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

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

[5 rows x 87 columns]
```

```
In [9]: len(daily_dia)
```

```
Out[9]: 786
```

```
In [8]: #normalitzem
        scaler=preprocessing.MinMaxScaler(feature_range=(0, 1))
        daily_dia_norm=scaler.fit_transform(daily_dia)
```

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

```
0.6545254976346351
0.6401735578332681
0.5232852964990304
```

```
In [9]: #Seleccionem dades per test i train
        y_daily=daily_dia_norm[:,0:30]
        X_daily=daily_dia_norm[:,31:101]

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



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

        #Enlloc de 14 features en son 7 de una feature i 7 duna altre
        X_daily=np.reshape(X_daily, (X_daily.shape[0], 14,4))
```

```
In [10]: # definim model
         import tensorflow as tf
         model =Sequential()
         model.add(LSTM(50, activation='relu', input_shape=(14, 4)))
         model.add(Dense(30))
         model.compile(optimizer='adam', loss='mse')
```

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

In [11]:
```
import math
from sklearn.metrics import mean_squared_error

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

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

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

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

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

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

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

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


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

    sumScores=sumScores+testScore
```

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

In [12]:
```
#Dividim la suma de scores de test entre el nombre de prediccions per obtenir la mitj
```

```
sumScores/(lenght-n_train)
```

Out[12]: 0.06336449850405705

In [13]:
```
#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[13]:
```
[[[0.5279642343521118,
   0.5523334741592407,
   0.571050763130188,
   0.5318237543106079,
   0.5114524364471436,
   0.5311219096183777,
   0.5117799639701843,
   0.5183930993080139,
   0.5251308679580688,
   0.5464895963668823,
   0.5459043383598328,
   0.5031529068946838,
   0.5103148818016052,
   0.522773802280426,
   0.5038158893585205,
   0.5340378284454346,
   0.5436944365501404,
   0.5505021214485168,
   0.5041483044624329,
   0.5256515145301819,
   0.5258573889732361,
   0.4787968099117279,
   0.543458104133606,
   0.5542587637901306,
   0.5310821533203125,
   0.509362518787384,
   0.5265816450119019,
   0.517325758934021,
   0.49069100618362427,
   0.5182175636291504]],
 [[0.6104905605316162,
   0.6563099026679993,
   0.6301665306091309,
   0.5865585207939148,
   0.585781991481781,
   0.5929799675941467,
   0.5665451884269714,
```

```
   0.592808187007904,
   0.6443992257118225,
   0.6185758113861084,
   0.5765532851219177,
   0.5885401964187622,
   0.5960700511932373,
   0.5871827602386475,
   0.62510085105896,
   0.6708004474639893,
   0.6133849024772644,
   0.5709919929504395,
   0.5918918251991272,
   0.6062282919883728,
   0.6076506972312927,
   0.5994365811347961,
   0.6641428470611572,
   0.6086538434028625,
   0.5712558031082153,
   0.5795900225639343,
   0.6078040599822998,
   0.5761799216270447,
   0.6265034675598145,
   0.6479607820510864]],
 [[0.7196630239486694,
   0.6511350870132446,
   0.5861473679542542,
   0.5701521039009094,
   0.5874634981155396,
   0.5820977091789246,
   0.6338565349578857,
   0.6591295599937439,
   0.5887584686279297,
   0.5524673461914062,
   0.5646414160728455,
   0.5693373084068298,
   0.5763487815856934,
   0.6200158596038818,
   0.653089165687561,
   0.5957050323486328,
   0.5364110469818115,
   0.5229201316833496,
   0.554438054561615,
   0.5548080801963806,
   0.5982456803321838,
   0.6415966749191284,
   0.5797910094261169,
   0.5340893268585205,
   0.5434220433235168,
```

```
  0.5471411943435669,
  0.5629374980926514,
  0.6042966842651367,
  0.6581721305847168,
  0.5875979065895081]],
[[0.6275553703308105,
  0.542622447013855,
  0.5363875031471252,
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  0.5301715135574341,
  0.5654532313346863,
  0.6293012499809265,
  0.5613343119621277,
  0.48882490396499634,
  0.5125415325164795,
  0.5194596648216248,
  0.490620881319046,
  0.5435734987258911,
  0.5844239592552185,
  0.5304981470108032,
  0.4831201136112213,
  0.4869389533996582,
  0.49445396661758423,
  0.4851699471473694,
  0.5267243981361389,
  0.5656441450119019,
  0.5008593201637268,
  0.47228243947029114,
  0.509590208530426,
  0.4853433668613434,
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  0.549117386341095,
  0.5873831510543823,
  0.5296626091003418,
  0.490098774433136]],
[[0.5643057823181152,
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  0.523473858833313,
  0.5798465013504028,
  0.5981215238571167,
```

```
  0.5479719638824463,
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  0.5021864771842957,
  0.5379701256752014,
  0.5668383240699768,
  0.5154435038566589,
  0.4894086718559265,
  0.4969480037689209,
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  0.5208732485771179,
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[[0.5805857181549072,
  0.5677590370178223,
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  0.6147369742393494,
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  0.5511130094528198,
  0.5509642362594604,
  0.5749707221984863,
  0.6173341870307922,
  0.6656635999679565,
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  0.5526078343391418,
  0.5515729784965515,
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[[0.5685573220252991,
```

```
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  0.5240601301193237,
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  0.4963947832584381,
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  0.504882276058197,
  0.5011784434318542,
  0.539535403251648,
  0.5905837416648865,
  0.5330785512924194,
  0.47939157485961914,
  0.47995033860206604,
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  0.5264893770217896,
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  0.47080105543136597,
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  0.5093590617179871,
  0.5082346796989441,
  0.5708634853363037,
  0.6113913655281067,
  0.5371354818344116,
  0.4956202805042267,
  0.4899558424949646,
  0.4772275984287262,
  0.4861627519130707,
  0.5198272466659546,
  0.5800743103027344,
  0.5264997482299805,
  0.4716205596923828,
```

```
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  0.486596018075943,
  0.5042049288749695,
  0.5807626843452454,
  0.5226055979728699,
  0.4812622368335724,
  0.42688143253326416,
  0.46581754088401794,
  0.4863976538181305,
  0.4938703179359436]],
[[0.6087576150894165,
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  0.5639851689338684,
  0.533478319644928,
  0.5176991820335388,
  0.5146322846412659,
  0.5161716938018799,
  0.5485513210296631,
  0.6211128830909729,
  0.5408921241760254,
  0.5055845379829407,
  0.4934066832065582,
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  0.49374982714653015,
  0.5707777142524719,
  0.49140021204948425,
  0.5035916566848755,
  0.5465272665023804,
  0.5431463122367859,
  0.5588525533676147,
```

```
          0.5978046655654907,
          0.6828525066375732,
          0.5551287531852722,
          0.5041009187698364,
          0.5279613733291626,
          0.5539712905883789,
          0.5547460317611694,
          0.5948041677474976,
          0.6721878051757812,
          0.595489501953125,
          0.5713164806365967]],
         [[0.4966490864753723,
          0.49485406279563904,
          0.4915173649787903,
          0.4981326758861542,
          0.5250597596168518,
          0.5700176954269409,
          0.5012614130973816,
          0.4653330147266388,
          0.4380480647087097,
          0.45362338423728943,
          0.4624156951904297,
          0.4841548204421997,
          0.5301159620285034,
          0.5165741443634033,
          0.5137816667556763,
          0.494362473487854,
          0.48482799530029297,
          0.47669315338134766,
          0.46919843554496765,
          0.5047560334205627,
          0.4880959689617157,
          0.4415801167488098,
          0.3867179751396179,
          0.424312561750412,
          0.45012593269348145,
          0.4606035351753235,
          0.4875052571296692,
          0.46200254559516907,
          0.4453277885913849,
          0.41894233226776123]]]
```

In [14]:
```
#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

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])

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

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

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

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

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

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

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

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

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

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

    llista_p24=list()
for i in range(len(llista_p)):
```

```
    llista_p24.append(llista_p[i][0][24])

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

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

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

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

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

In [15]:
```
score0=math.sqrt(mean_squared_error(y_daily[n_train:lenght,0], llista_p0))
print("Error predicció 1 dia següent: {}".format(score0))
score1=math.sqrt(mean_squared_error(y_daily[n_train:lenght,1], llista_p1))
print("Error predicció 2 dia següent: {}".format(score1))
score2=math.sqrt(mean_squared_error(y_daily[n_train:lenght,2], llista_p2))
print("Error predicció 3 dia següent: {}".format(score2))
score3=math.sqrt(mean_squared_error(y_daily[n_train:lenght,3], llista_p3))
print("Error predicció 4 dia següent: {}".format(score3))
score4=math.sqrt(mean_squared_error(y_daily[n_train:lenght,4], llista_p4))
print("Error predicció 5 dia següent: {}".format(score4))
score5=math.sqrt(mean_squared_error(y_daily[n_train:lenght,5], llista_p5))
print("Error predicció 6 dia següent: {}".format(score5))
score6=math.sqrt(mean_squared_error(y_daily[n_train:lenght,6], llista_p6))
print("Error predicció 7 dia següent: {}".format(score6))
score7=math.sqrt(mean_squared_error(y_daily[n_train:lenght,7], llista_p7))
print("Error predicció 8 dia següent: {}".format(score7))
score8=math.sqrt(mean_squared_error(y_daily[n_train:lenght,8], llista_p8))
print("Error predicció 9 dia següent: {}".format(score8))
score9=math.sqrt(mean_squared_error(y_daily[n_train:lenght,9], llista_p9))
print("Error predicció 10 dia següent: {}".format(score9))
score10=math.sqrt(mean_squared_error(y_daily[n_train:lenght,10], llista_p10))
print("Error predicció 11 dia següent: {}".format(score10))
score11=math.sqrt(mean_squared_error(y_daily[n_train:lenght,11], llista_p11))
print("Error predicció 12 dia següent: {}".format(score11))
score12=math.sqrt(mean_squared_error(y_daily[n_train:lenght,12], llista_p12))
print("Error predicció 13 dia següent: {}".format(score12))
```

```
        score13=math.sqrt(mean_squared_error(y_daily[n_train:lenght,13], llista_p13))
        print("Error predicció 14 dia següent: {}".format(score13))
        score14=math.sqrt(mean_squared_error(y_daily[n_train:lenght,14], llista_p14))
        print("Error predicció 15 dia següent: {}".format(score14))
        score15=math.sqrt(mean_squared_error(y_daily[n_train:lenght,15], llista_p15))
        print("Error predicció 16 dia següent: {}".format(score15))
        score16=math.sqrt(mean_squared_error(y_daily[n_train:lenght,16], llista_p16))
        print("Error predicció 17 dia següent: {}".format(score16))
        score17=math.sqrt(mean_squared_error(y_daily[n_train:lenght,17], llista_p17))
        print("Error predicció 18 dia següent: {}".format(score17))
        score18=math.sqrt(mean_squared_error(y_daily[n_train:lenght,18], llista_p18))
        print("Error predicció 19 dia següent: {}".format(score18))
        score19=math.sqrt(mean_squared_error(y_daily[n_train:lenght,19], llista_p19))
        print("Error predicció 20 dia següent: {}".format(score19))
        score20=math.sqrt(mean_squared_error(y_daily[n_train:lenght,20], llista_p20))
        print("Error predicció 21 dia següent: {}".format(score20))
        score21=math.sqrt(mean_squared_error(y_daily[n_train:lenght,21], llista_p21))
        print("Error predicció 22 dia següent: {}".format(score21))
        score22=math.sqrt(mean_squared_error(y_daily[n_train:lenght,22], llista_p22))
        print("Error predicció 23 dia següent: {}".format(score22))
        score23=math.sqrt(mean_squared_error(y_daily[n_train:lenght,23], llista_p23))
        print("Error predicció 24 dia següent: {}".format(score23))
        score24=math.sqrt(mean_squared_error(y_daily[n_train:lenght,24], llista_p24))
        print("Error predicció 25 dia següent: {}".format(score24))
        score25=math.sqrt(mean_squared_error(y_daily[n_train:lenght,25], llista_p25))
        print("Error predicció 26 dia següent: {}".format(score25))
        score26=math.sqrt(mean_squared_error(y_daily[n_train:lenght,26], llista_p26))
        print("Error predicció 27 dia següent: {}".format(score26))
        score27=math.sqrt(mean_squared_error(y_daily[n_train:lenght,27], llista_p27))
        print("Error predicció 28 dia següent: {}".format(score27))
        score28=math.sqrt(mean_squared_error(y_daily[n_train:lenght,28], llista_p28))
        print("Error predicció 29 dia següent: {}".format(score28))
        score29=math.sqrt(mean_squared_error(y_daily[n_train:lenght,29], llista_p29))
        print("Error predicció 30 dia següent: {}".format(score29))
```

```
Error predicció 1 dia següent: 0.049119281592469775
Error predicció 2 dia següent: 0.05070056066876289
Error predicció 3 dia següent: 0.054049458093536645
Error predicció 4 dia següent: 0.05432328580333885
Error predicció 5 dia següent: 0.05690581500007277
Error predicció 6 dia següent: 0.05921663392811432
Error predicció 7 dia següent: 0.061350608909753475
Error predicció 8 dia següent: 0.06420297882358851
Error predicció 9 dia següent: 0.06671456773066474
Error predicció 10 dia següent: 0.07014581685057497
Error predicció 11 dia següent: 0.06872224327888915
Error predicció 12 dia següent: 0.06784915713144789
Error predicció 13 dia següent: 0.07286472578254767
```

```
Error predicció 14 dia següent: 0.06930813624646813
Error predicció 15 dia següent: 0.07039424669952414
Error predicció 16 dia següent: 0.07251756188343834
Error predicció 17 dia següent: 0.07532337381371912
Error predicció 18 dia següent: 0.0744079383397875
Error predicció 19 dia següent: 0.07191968353198439
Error predicció 20 dia següent: 0.06957830109869574
Error predicció 21 dia següent: 0.0702900076184908
Error predicció 22 dia següent: 0.07292343222044437
Error predicció 23 dia següent: 0.07390312481433668
Error predicció 24 dia següent: 0.07688619970022602
Error predicció 25 dia següent: 0.08010947850224662
Error predicció 26 dia següent: 0.08141770923685834
Error predicció 27 dia següent: 0.08434965086293564
Error predicció 28 dia següent: 0.08897374318098428
Error predicció 29 dia següent: 0.09326790759120802
Error predicció 30 dia següent: 0.094442777183323
```

In [16]:
```
predis=list()

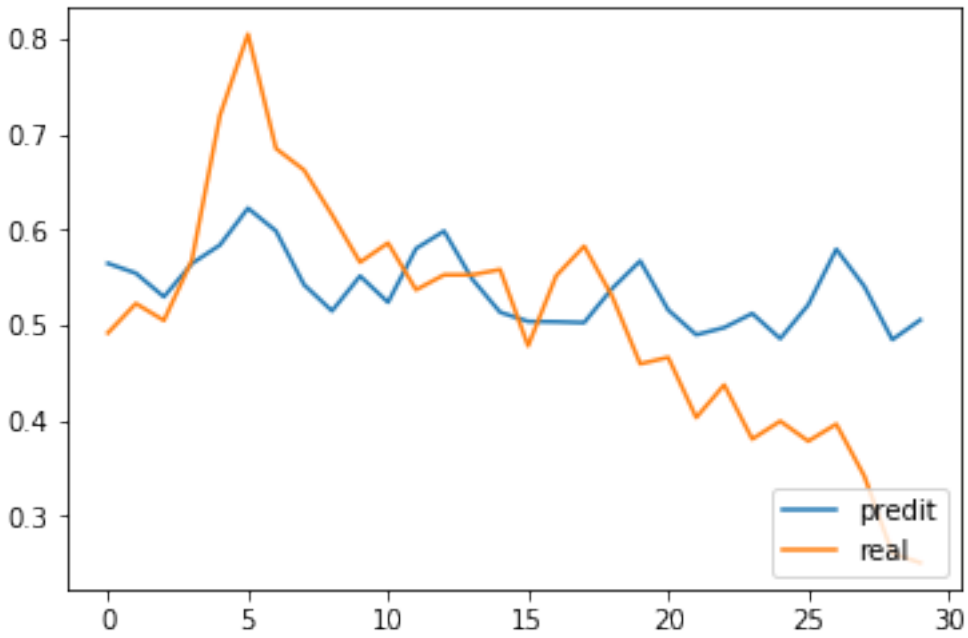
for i in range(len(llista_prediccions)):
    predi=llista_prediccions[i].tolist()
    predis.append(predi)

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

predis
```

Out[16]:
```
array([[0.52796423, 0.55233347, 0.57105076, ..., 0.51732576, 0.49069101,
        0.51821756],
       [0.61049056, 0.6563099 , 0.63016653, ..., 0.57617992, 0.62650347,
        0.64796078],
       [0.71966302, 0.65113509, 0.58614737, ..., 0.60429668, 0.65817213,
        0.58759791],
       ...,
       [0.57731462, 0.50426739, 0.49727631, ..., 0.55993259, 0.59108132,
        0.52352118],
       [0.50947905, 0.49918419, 0.51584321, ..., 0.67218781, 0.5954895 ,
        0.57131648],
       [0.49664909, 0.49485406, 0.49151736, ..., 0.46200255, 0.44532779,
        0.41894233]])
```

In [17]:
```
##Mostrem
plt.plot(predis[4], label="predit")
plt.plot(y_daily[n_train+4], label="real")
plt.legend(loc="lower right")
plt.show()
```



In [18]:
```
##Mostrem
plt.plot(llista_p0, label="predit1")
plt.plot(y_daily[n_train:lenght,0], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 1 dia següent")
plt.show()

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


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

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

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

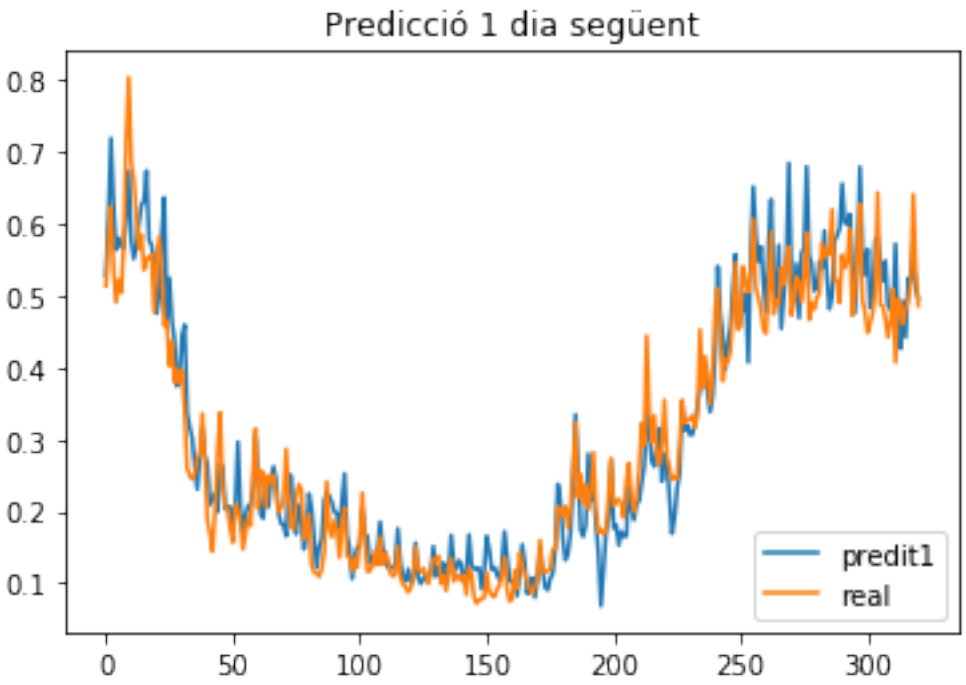
plt.plot(llista_p5, label="predit6")
plt.plot(y_daily[n_train:lenght,5], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 6 dia següent")
plt.show()

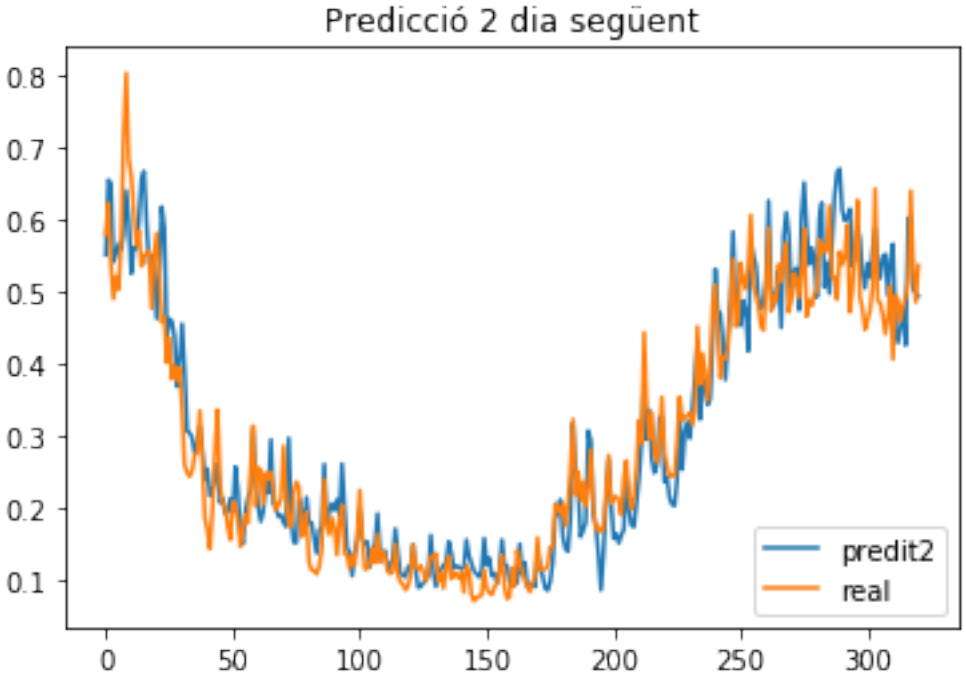
plt.plot(llista_p6, label="predit7")
plt.plot(y_daily[n_train:lenght,6], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 7 dia següent")
plt.show()

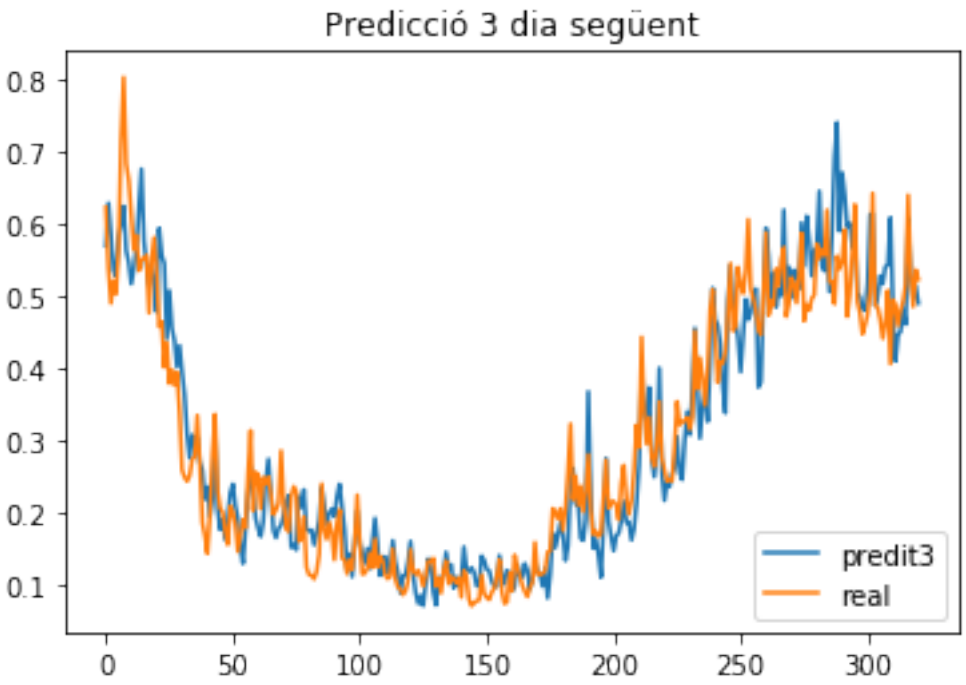
plt.plot(llista_p14, label="predit15")
plt.plot(y_daily[n_train:lenght,14], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 15 dia següent")
plt.show()

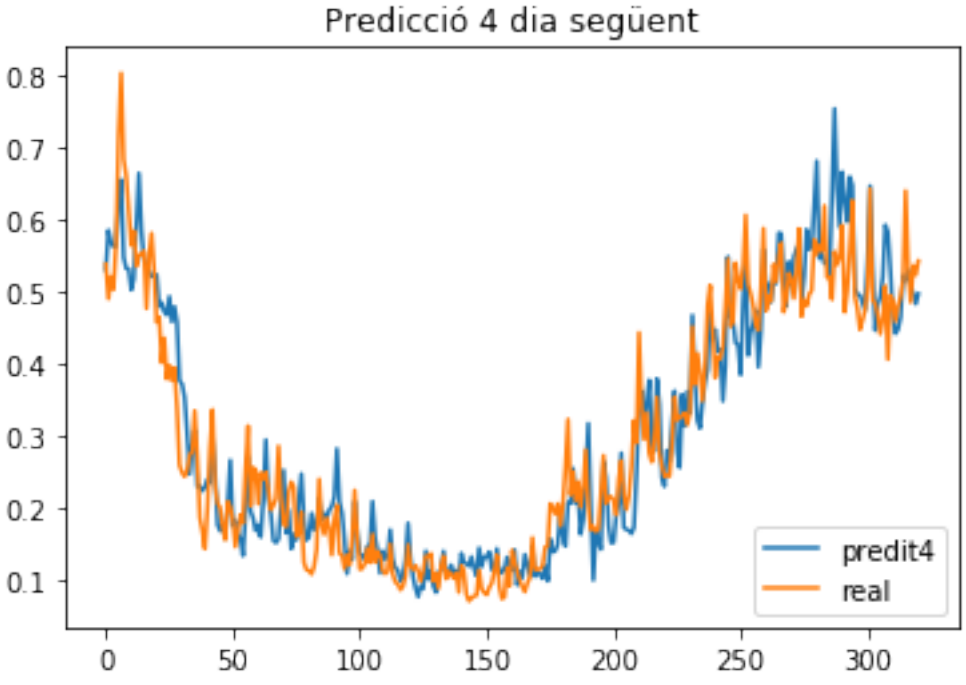
plt.plot(llista_p21, label="predit22")
plt.plot(y_daily[n_train:lenght,21], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 22 dia següent")
plt.show()

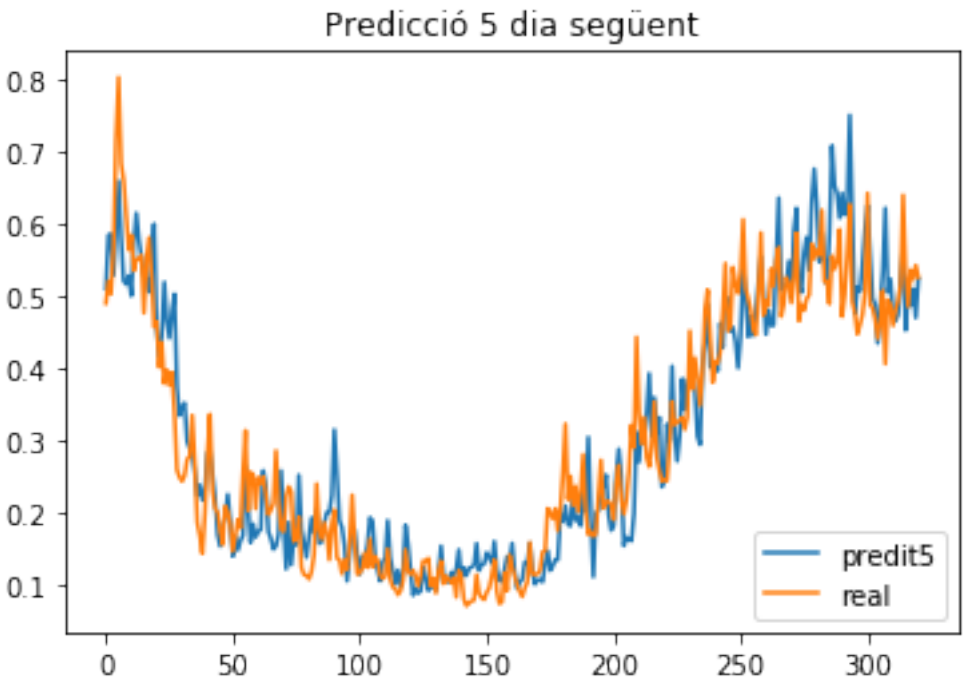
plt.plot(llista_p29, label="predit30")
plt.plot(y_daily[n_train:lenght,29], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 30 dia següent")
plt.show()
```

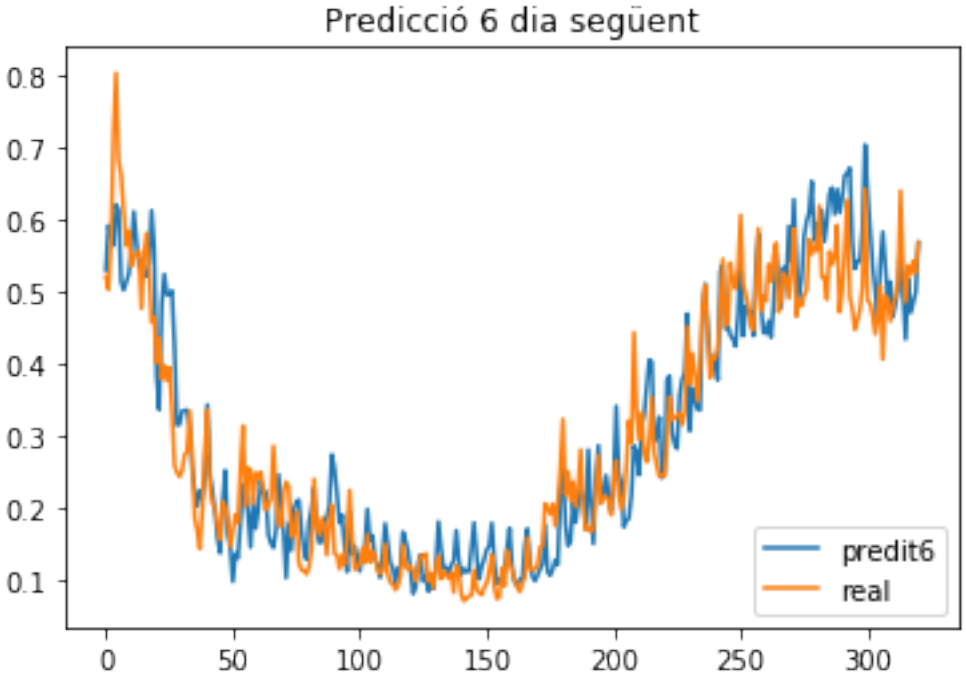

Predicció 1 dia següent
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
50
100
150
200
250
300
predit1
real

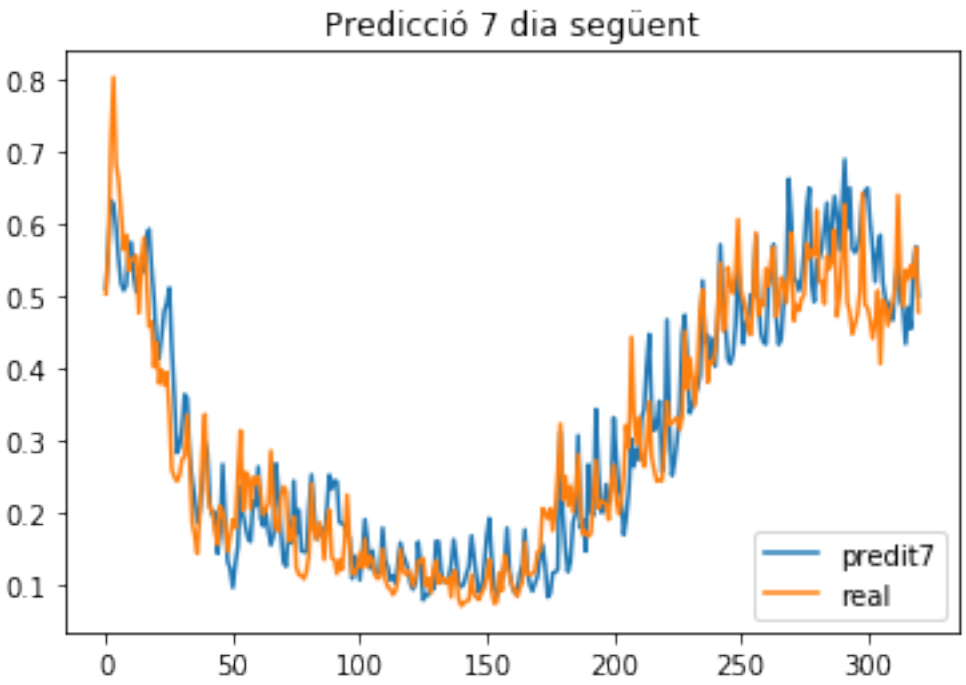

Predicció 2 dia següent
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
50
100
150
200
250
300
predit2
real

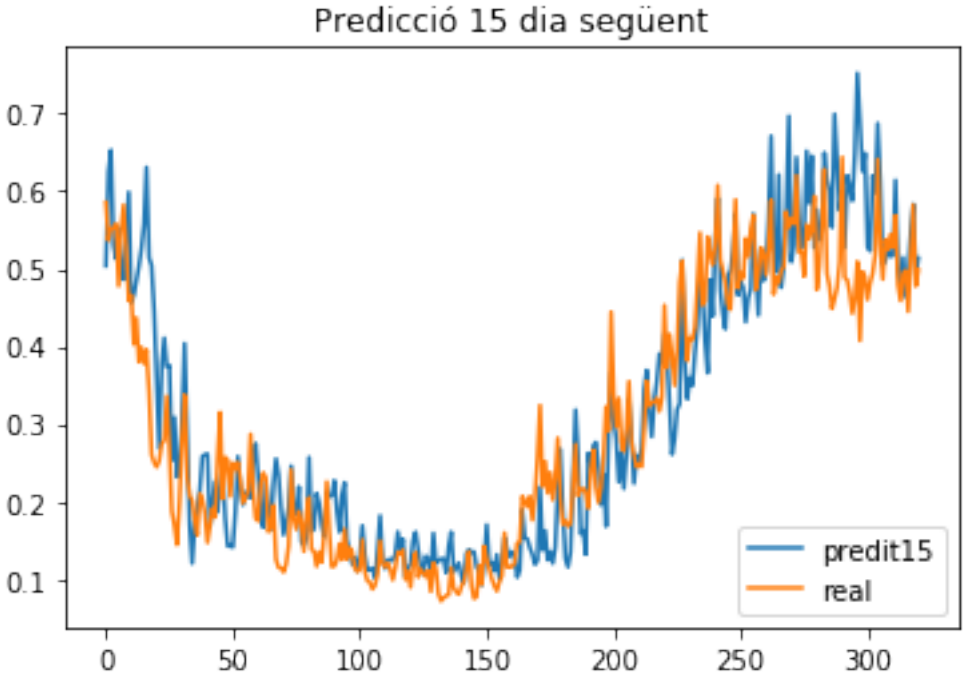

Predicció 3 dia següent
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
50
100
150
200
250
300
predit3
real

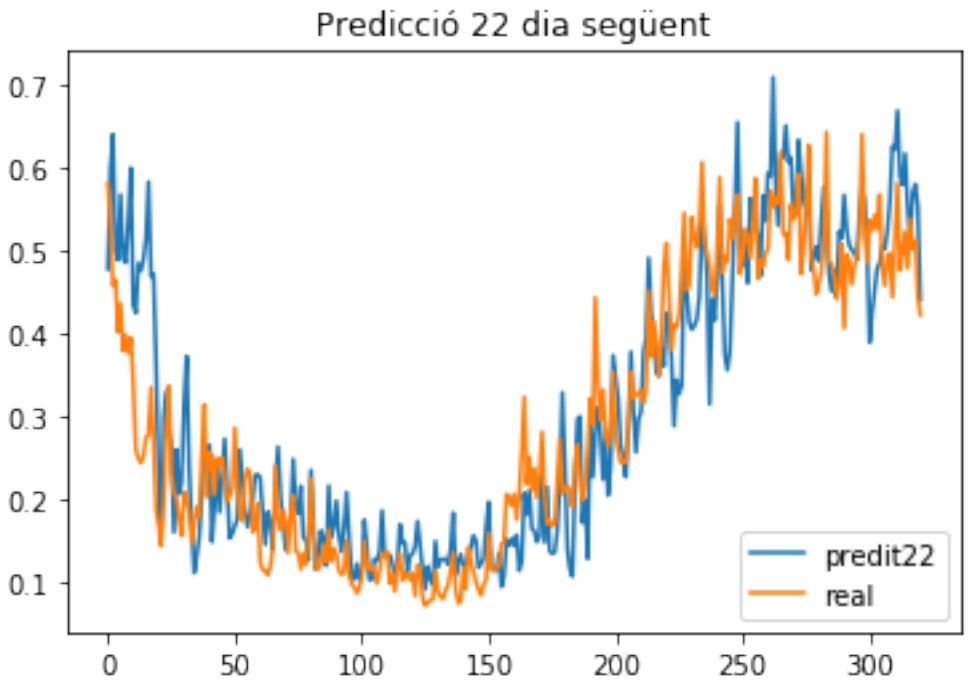

Predicció 4 dia següent
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
50
100
150
200
250
300
predit4
real

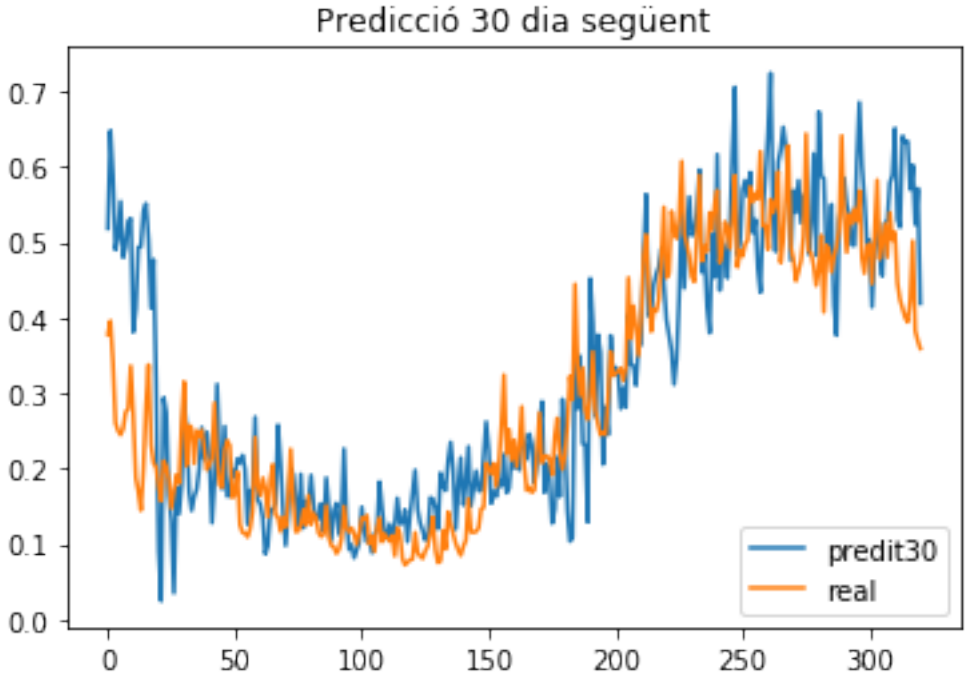

Predicció 5 dia següent
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
50
100
150
200
250
300
predit5
real


Predicció 6 dia següent
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
50
100
150
200
250
300
predit6
real


Predicció 7 dia següent
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
50
100
150
200
250
300
predit7
real


Predicció 15 dia següent
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
50
100
150
200
250
300
predit15
real


Predicció 22 dia següent
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
50
100
150
200
250
300
predit22
real


Predicció 30 dia següent
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
250
300
predit30
real

In [ ]:

```
In [19]: llista_scores

Out[19]: [0.09520090273742203,
          0.12296748902239073,
          0.11972632644888473,
          0.10807656117787535,
          0.1109319071633047,
          0.15202166642698575,
          0.1215308957957102,
          0.12802113769707374,
          0.133772934145589,
          0.1514932874499563,
          0.10028514204350976,
          0.11527128784284589,
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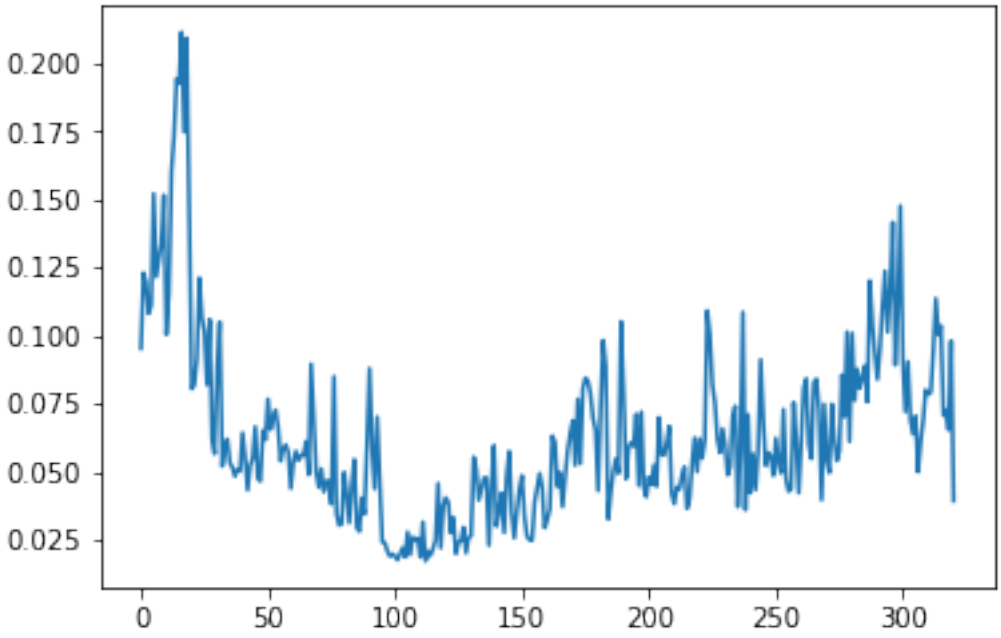
```

```
In [20]: plt.plot(llista_scores)
```

```
Out[20]: [<matplotlib.lines.Line2D at 0x286bb0282e8>]
```



In [21]:
```
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['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=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','p

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: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
  if sys.path[0] == '':
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
  del sys.path[0]
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
```

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

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

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

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

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

```
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:2
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:2
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:2
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:2
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:2
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:2
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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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
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:4
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

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

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

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

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

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

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

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:5
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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:5
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c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:5
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```

```
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c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:6
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

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

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

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

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

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

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

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

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

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

In [22]:
```
# Convert predictions back to normal values

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

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

#7-13 y

print(predi[0][7])
```

```
        print(predi[0][8])
        print(predi[0][9])
        print(predi[0][10])
        print(predi[0][11])
        print(predi[0][12])
        print(predi[0][13])
```

```
[[11.71529537 11.93341156 12.10094013 ... 43.         37.
  31.        ]
 [12.45394492 12.86404965 12.63005414 ...  7.         43.
  37.        ]
 [13.43108998 12.81773261 12.23606186 ... 13.          7.
  43.        ]
 ...
 [12.15700456 11.50319747 11.44062393 ... 13.          7.
  43.        ]
 [11.54984421 11.4577004  11.6068065  ... 19.         13.
   7.        ]
 [11.43501002 11.41894371 11.38907869 ... 25.         19.
  13.        ]]
11.715295367924863
11.93341156134667
12.100940128254395
11.749839892433846
11.567506986584863
11.74355805131553
11.570438512440079
11.629629193720529
11.689935401946066
11.881106098025711
11.875867762744118
11.49322228146063
11.557325335821119
11.66883855209266
```

In [23]:
```
        llista1=list()
        llista2=list()
        llista3=list()
        llista4=list()
        llista5=list()
        llista6=list()
        llista7=list()
        llista8=list()
        llista9=list()
        llista10=list()
        llista11=list()
        llista12=list()
```

```
llista13=list()
llista14=list()
llista15=list()
llista16=list()
llista17=list()
llista18=list()
llista19=list()
llista20=list()
llista21=list()
llista22=list()
llista23=list()
llista24=list()
llista25=list()
llista26=list()
llista27=list()
llista28=list()
llista29=list()
llista30=list()

llistay1=list()
llistay2=list()
llistay3=list()
llistay4=list()
llistay5=list()
llistay6=list()
llistay7=list()
llistay8=list()
llistay9=list()
llistay10=list()
llistay11=list()
llistay12=list()
llistay13=list()
llistay14=list()
llistay15=list()
llistay16=list()
llistay17=list()
llistay18=list()
llistay19=list()
llistay20=list()
llistay21=list()
llistay22=list()
llistay23=list()
llistay24=list()
llistay25=list()
llistay26=list()
llistay27=list()
llistay28=list()
llistay29=list()
```

```
llistay30=list()


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


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


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

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

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

llista_errors6=list()
llista_errorsabs6=list()
llista_errorsres6=list()

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

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

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

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

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

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


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

for i in range(len(predi)):

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

    llistay1.append(predi[i][14])
    llistay2.append(predi[i][15])
    llistay3.append(predi[i][16])
    llistay4.append(predi[i][17])
    llistay5.append(predi[i][18])
    llistay6.append(predi[i][19])
```

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

llista15.append(predi2[i][0])
llista16.append(predi2[i][1])
llista17.append(predi2[i][2])
llista18.append(predi2[i][3])
llista19.append(predi2[i][4])
llista20.append(predi2[i][5])
llista21.append(predi2[i][6])
llista22.append(predi2[i][7])
llista23.append(predi2[i][8])
llista24.append(predi2[i][9])
llista25.append(predi2[i][10])
llista26.append(predi2[i][11])
llista27.append(predi2[i][12])
llista28.append(predi2[i][13])
llista29.append(predi2[i][14])
llista30.append(predi2[i][15])



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

```
llista_errorsabs1.append(valorabs1)
llista_errorsres1.append(valorrespecte1)

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

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

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

valor5=llistay5[i] - llista5[i]
valorabs5=math.fabs(valor5)
valorrespecte5=valorabs5/llistay5[i]
llista_errors5.append(valor5)
llista_errorsabs5.append(valorabs5)
llista_errorsres5.append(valorrespecte5)

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

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

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

```
llista_errorsres8.append(valorrespecte8)

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



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

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

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

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

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

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

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

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

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

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

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

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


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

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

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




valor25=llistay25[i] - llista25[i]
valorabs25=math.fabs(valor25)
```

```
        valorrespecte25=valorabs25/llistay25[i]
        llista_errors25.append(valor25)
        llista_errorsabs25.append(valorabs25)
        llista_errorsres25.append(valorrespecte25)

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

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

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

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




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



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

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

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

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

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

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

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

plt.plot(llista10)
plt.plot(llistay10)
plt.title("Predicció consum a 10 dies")
plt.show()

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

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

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

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

```
plt.show()


plt.plot(llista_errorsres1)
plt.title("Error percentual a 1 dia")
plt.show()
plt.plot(llista_errorsres2)
plt.title("Error percentual a 2 dies")
plt.show()
plt.plot(llista_errorsres3)
plt.title("Error percentual a 3 dies")
plt.show()
plt.plot(llista_errorsres4)
plt.title("Error percentual a 4 dies")
plt.show()
plt.plot(llista_errorsres5)
plt.title("Error percentual a 5 dies")
plt.show()
plt.plot(llista_errorsres6)
plt.title("Error percentual a 6 dies")
plt.show()
plt.plot(llista_errorsres7)
plt.title("Error percentual a 7 dies")
plt.show()
plt.plot(llista_errorsres10)
plt.title("Error percentual a 10 dies")
plt.show()
plt.plot(llista_errorsres15)
plt.title("Error percentual a 15 dies")
plt.show()
plt.plot(llista_errorsres20)
plt.title("Error percentual a 20 dies")
plt.show()
plt.plot(llista_errorsres25)
plt.title("Error percentual a 25 dies")
plt.show()
plt.plot(llista_errorsres30)
plt.title("Error percentual a 30 dies")
plt.show()


error_mitja1=sum(llista_errorsres1)/(len(llista_errorsres1))*100
error_mitja2=sum(llista_errorsres2)/(len(llista_errorsres2))*100
error_mitja3=sum(llista_errorsres3)/(len(llista_errorsres3))*100
error_mitja4=sum(llista_errorsres4)/(len(llista_errorsres4))*100
error_mitja5=sum(llista_errorsres5)/(len(llista_errorsres5))*100
error_mitja6=sum(llista_errorsres6)/(len(llista_errorsres6))*100
error_mitja7=sum(llista_errorsres7)/(len(llista_errorsres7))*100
```

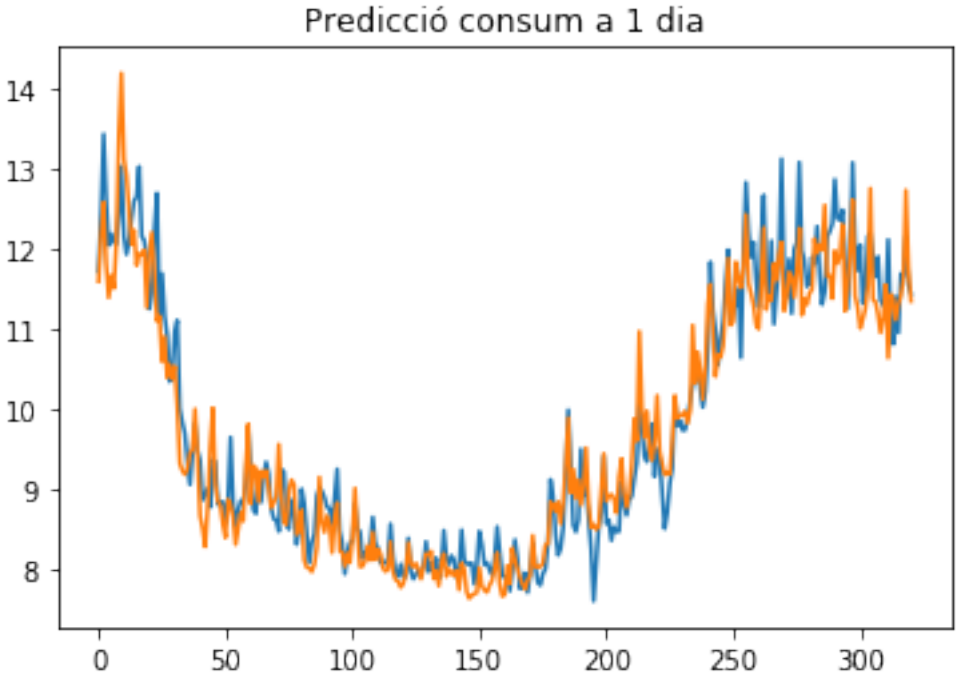
```
error_mitja8=sum(llista_errorsres8)/(len(llista_errorsres8))*100
error_mitja9=sum(llista_errorsres9)/(len(llista_errorsres9))*100
error_mitja10=sum(llista_errorsres10)/(len(llista_errorsres10))*100
error_mitja11=sum(llista_errorsres11)/(len(llista_errorsres11))*100
error_mitja12=sum(llista_errorsres12)/(len(llista_errorsres12))*100
error_mitja13=sum(llista_errorsres13)/(len(llista_errorsres13))*100
error_mitja14=sum(llista_errorsres14)/(len(llista_errorsres14))*100

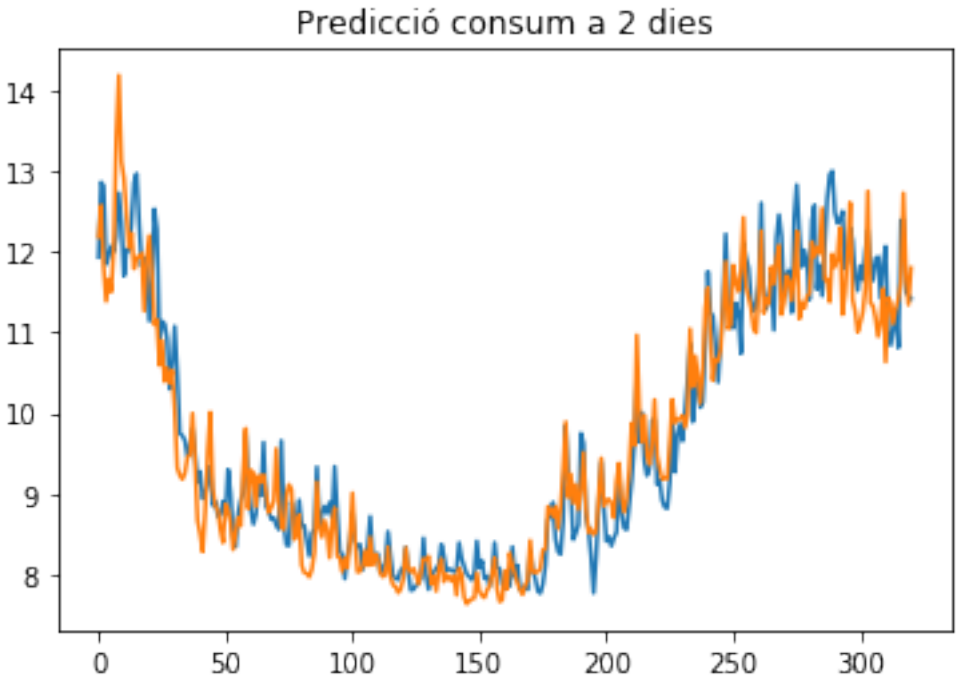
error_mitja15=sum(llista_errorsres15)/(len(llista_errorsres15))*100
error_mitja16=sum(llista_errorsres16)/(len(llista_errorsres16))*100
error_mitja17=sum(llista_errorsres17)/(len(llista_errorsres17))*100
error_mitja18=sum(llista_errorsres18)/(len(llista_errorsres18))*100
error_mitja19=sum(llista_errorsres19)/(len(llista_errorsres19))*100

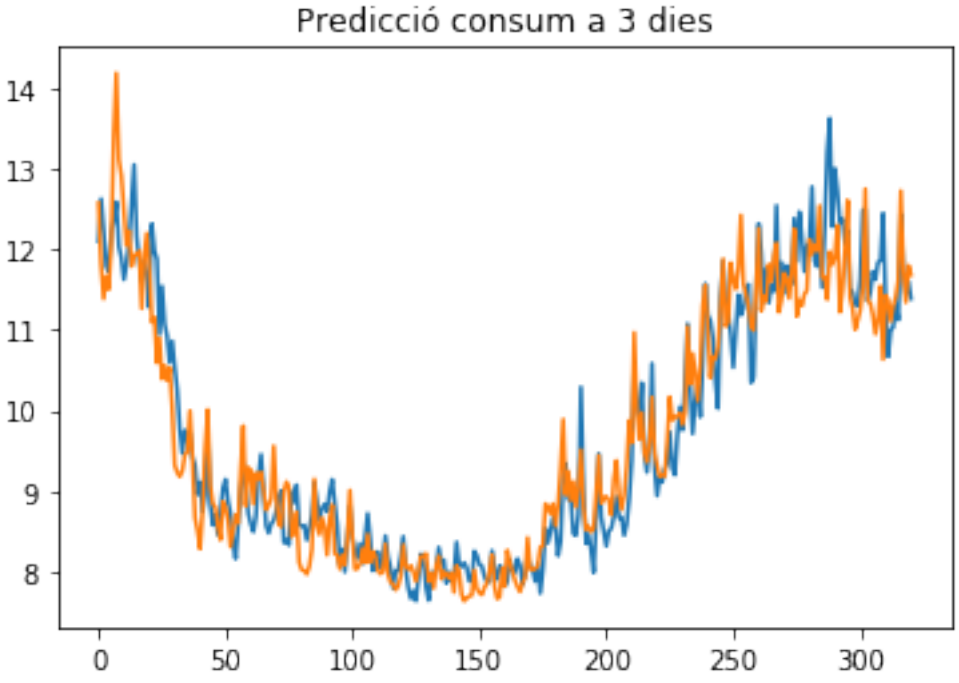
error_mitja20=sum(llista_errorsres20)/(len(llista_errorsres20))*100
error_mitja21=sum(llista_errorsres21)/(len(llista_errorsres21))*100
error_mitja22=sum(llista_errorsres22)/(len(llista_errorsres22))*100
error_mitja23=sum(llista_errorsres23)/(len(llista_errorsres23))*100
error_mitja24=sum(llista_errorsres24)/(len(llista_errorsres24))*100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

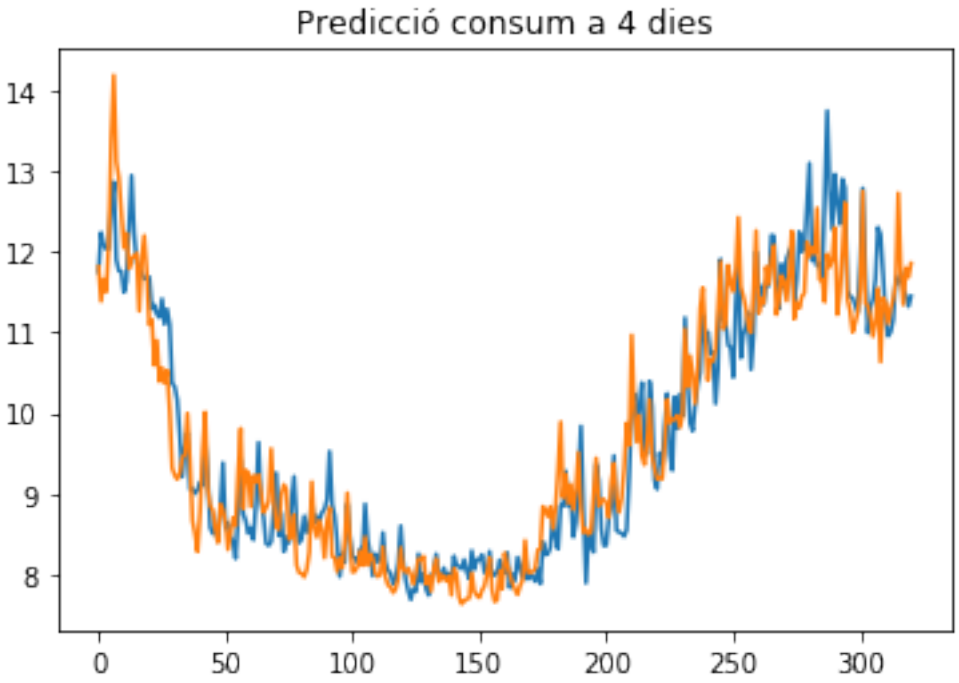
print("L'error mitjà a 1 dia és de {} % " .format(error_mitja1))
print("L'error mitjà a 2 dies és de {} % " .format(error_mitja2))
print("L'error mitjà a 3 dies és de {} % " .format(error_mitja3))
print("L'error mitjà a 4 dies és de {} % " .format(error_mitja4))
print("L'error mitjà a 5 dies és de {} % " .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))
```

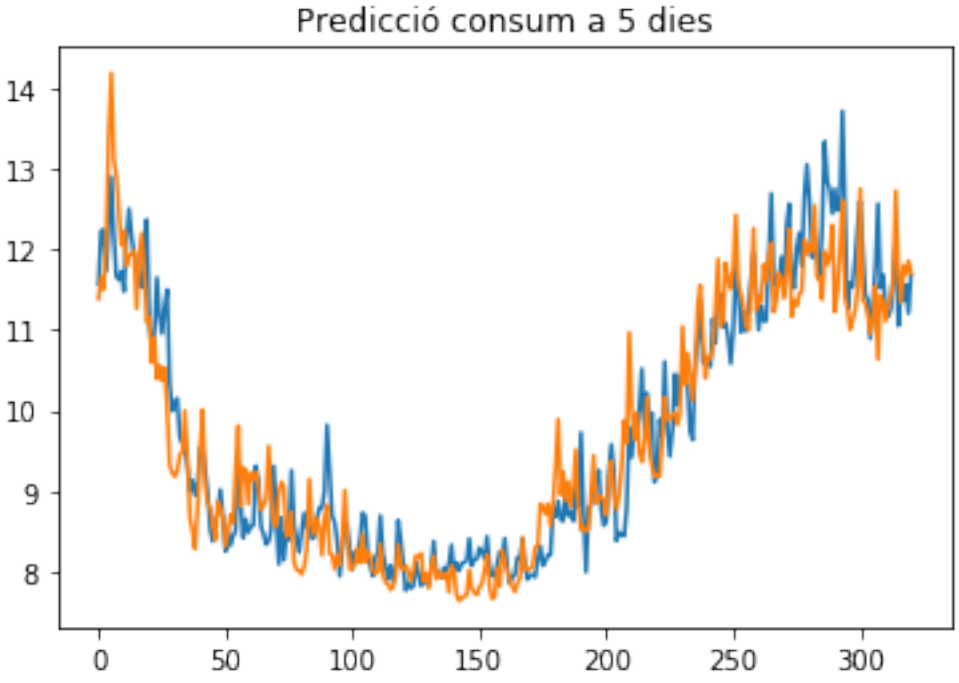
```
print("L'error mitjà a 23 dies és de {} % " .format(error_mitja23))
print("L'error mitjà a 24 dies és de {} % " .format(error_mitja24))
print("L'error mitjà a 25 dies és de {} % " .format(error_mitja25))
print("L'error mitjà a 26 dies és de {} % " .format(error_mitja26))
print("L'error mitjà a 27 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))
```

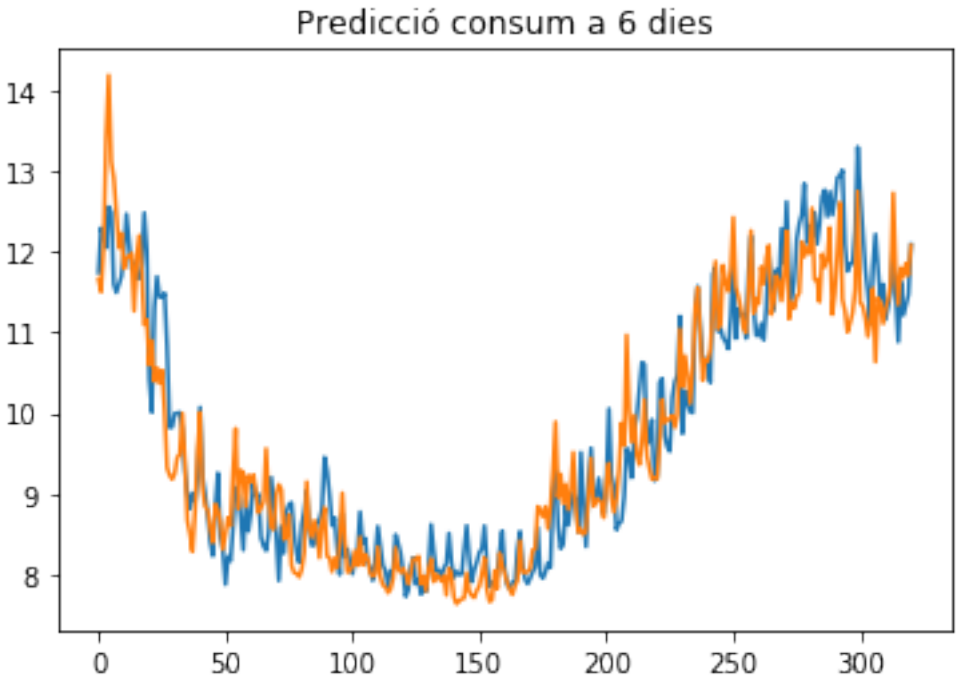


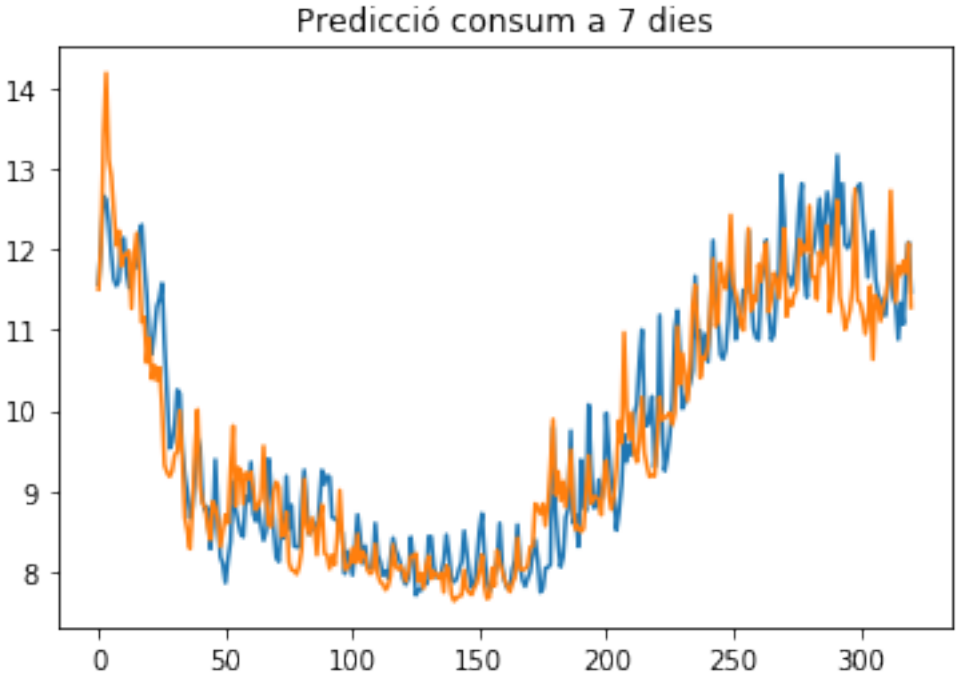

Predicció consum a 2 dies
14
13
12
11
10
9
8
0
50
100
150
200
250
300

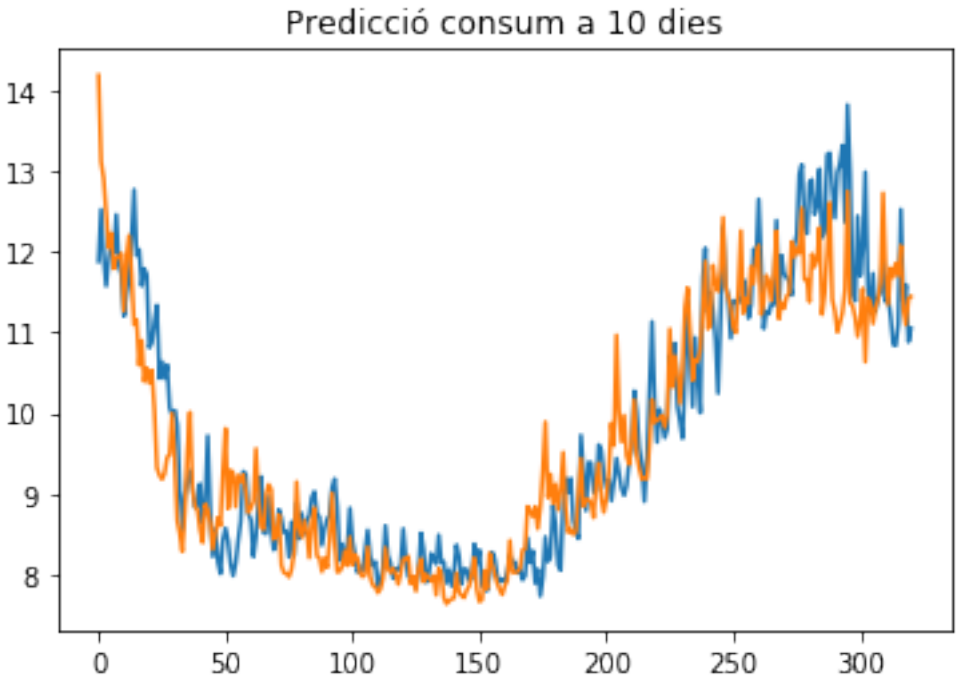

Predicció consum a 3 dies
14
13
12
11
10
9
8
0
50
100
150
200
250
300

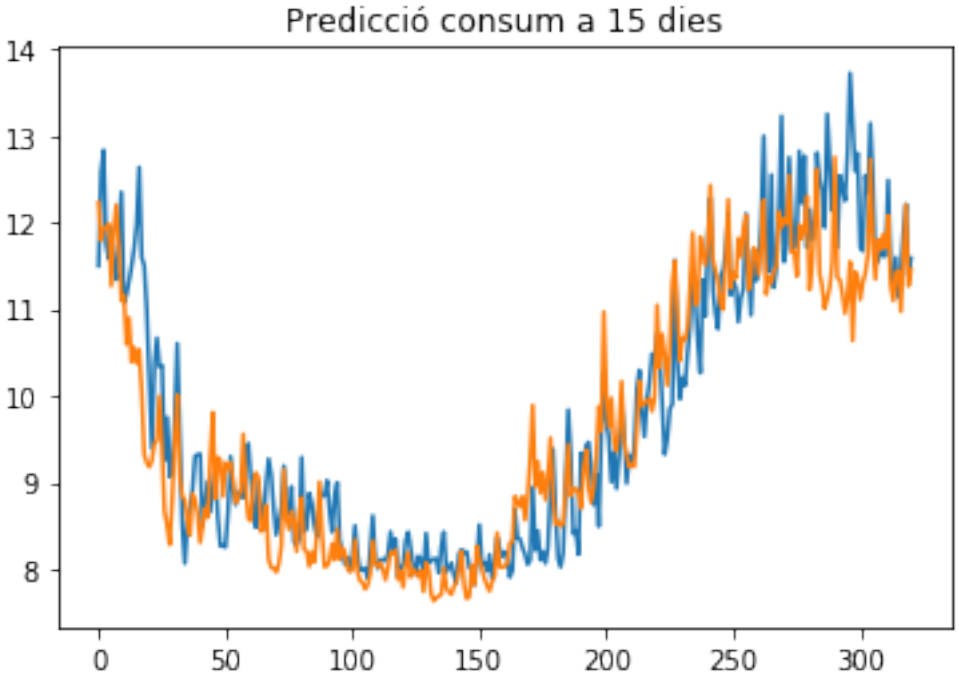

Predicció consum a 4 dies
14
13
12
11
10
9
8
0
50
100
150
200
250
300

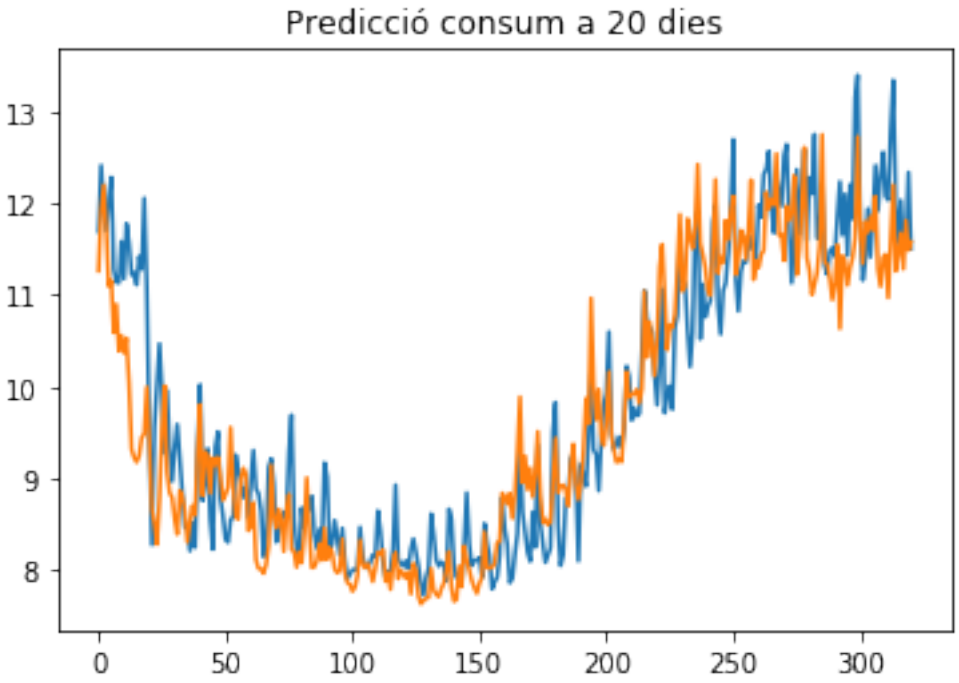

Predicció consum a 5 dies
14
13
12
11
10
9
8
0
50
100
150
200
250
300

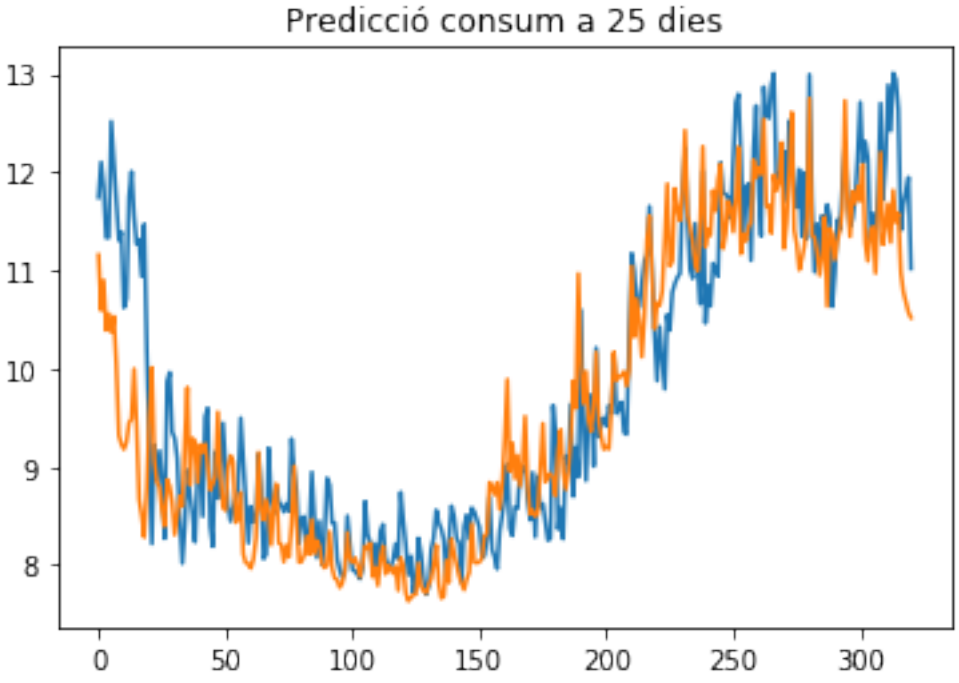

Predicció consum a 6 dies
14
13
12
11
10
9
8
0
50
100
150
200
250
300

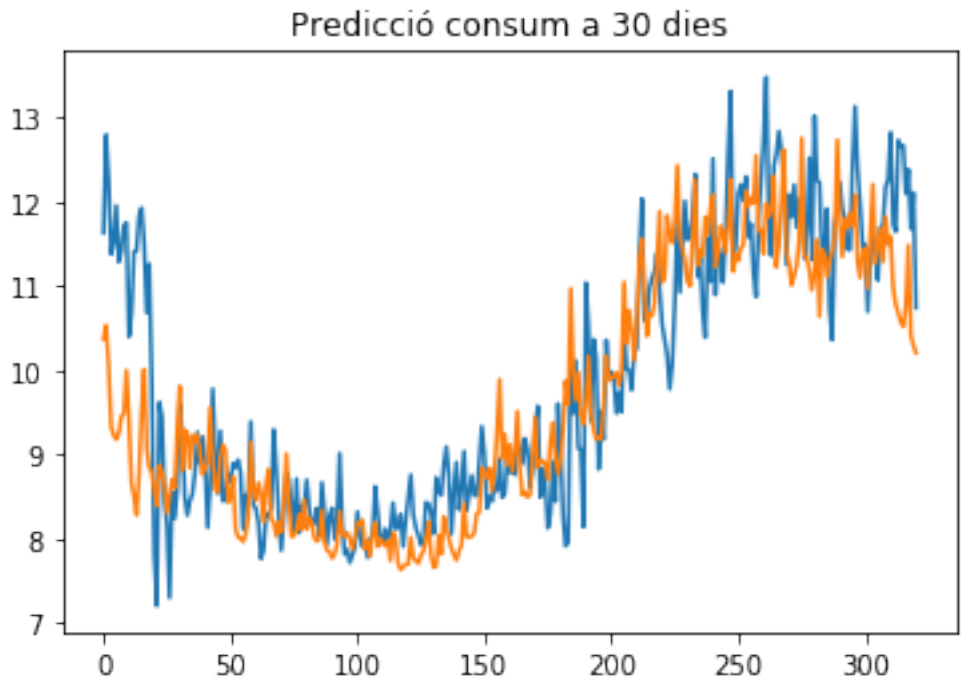

Predicció consum a 7 dies
14
13
12
11
10
9
8
0
50
100
150
200
250
300

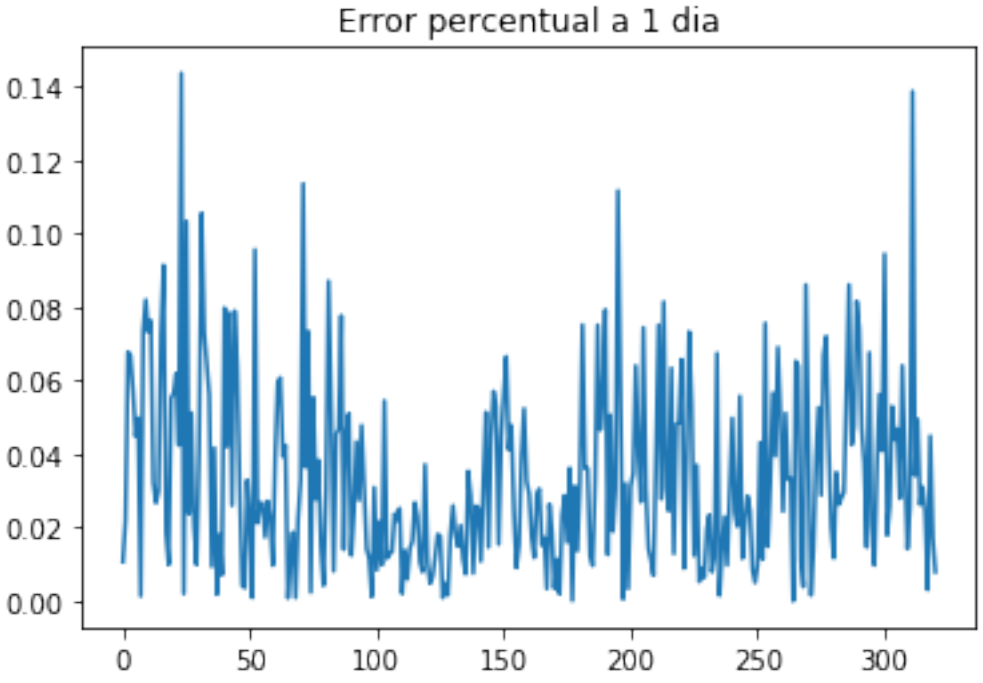

Predicció consum a 10 dies
14
13
12
11
10
9
8
0
50
100
150
200
250
300

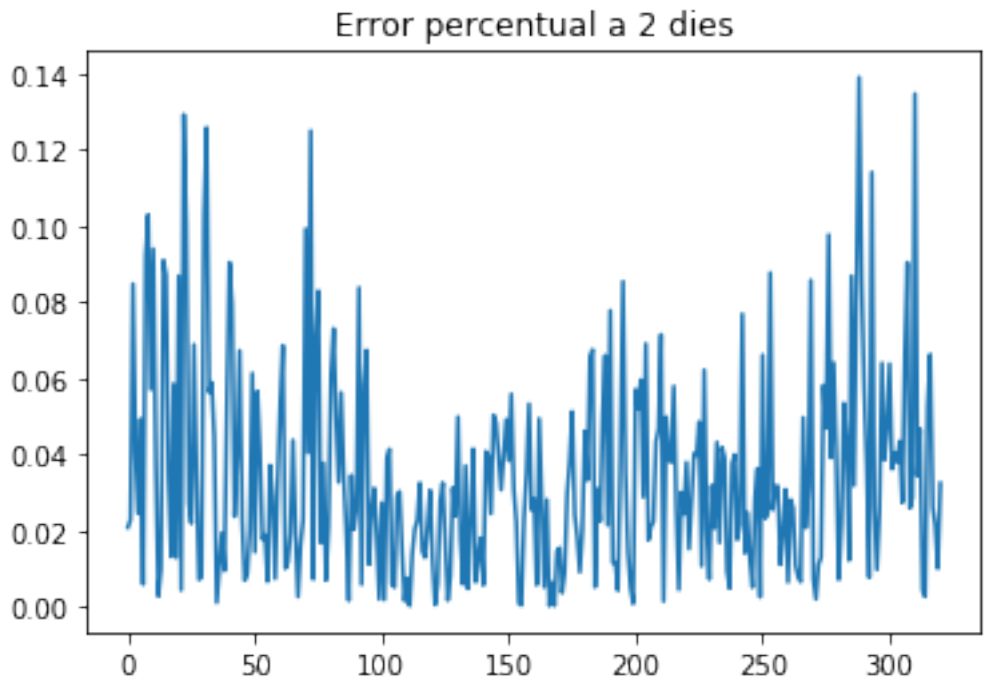

Predicció consum a 15 dies
14
13
12
11
10
9
8
0
50
100
150
200
250
300

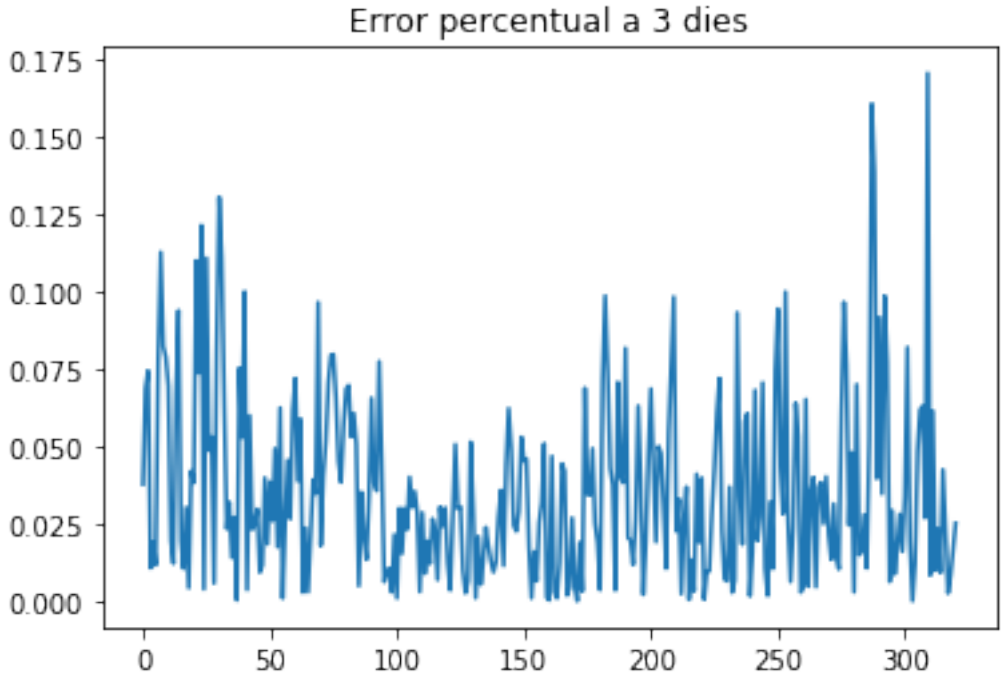

Predicció consum a 20 dies
13
12
11
10
9
8
0
50
100
150
200
250
300

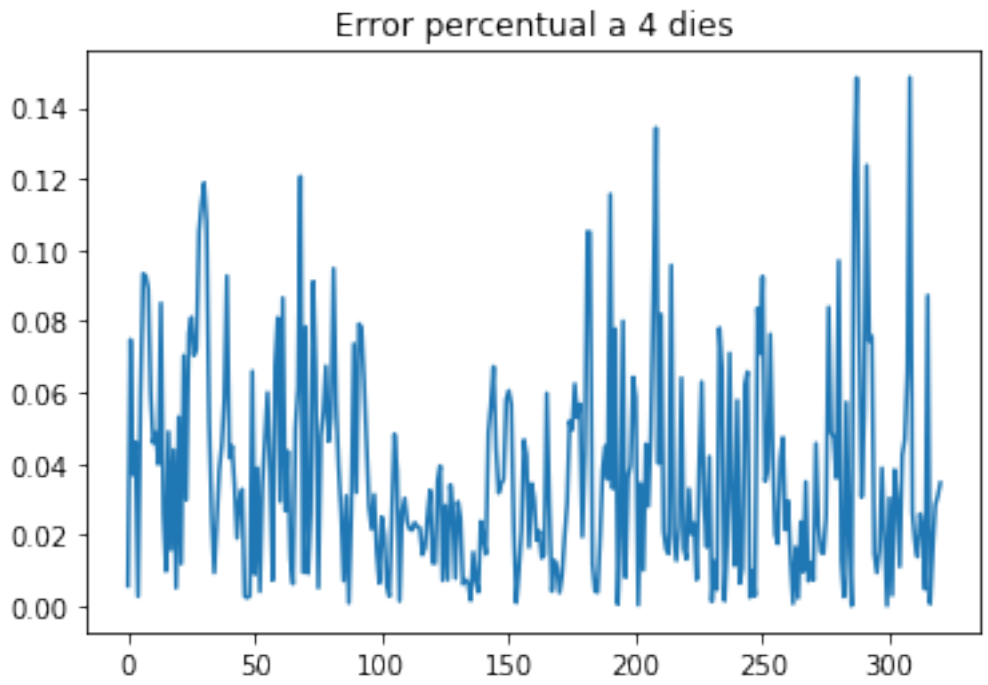

Predicció consum a 25 dies
13
12
11
10
9
8
0
50
100
150
200
250
300

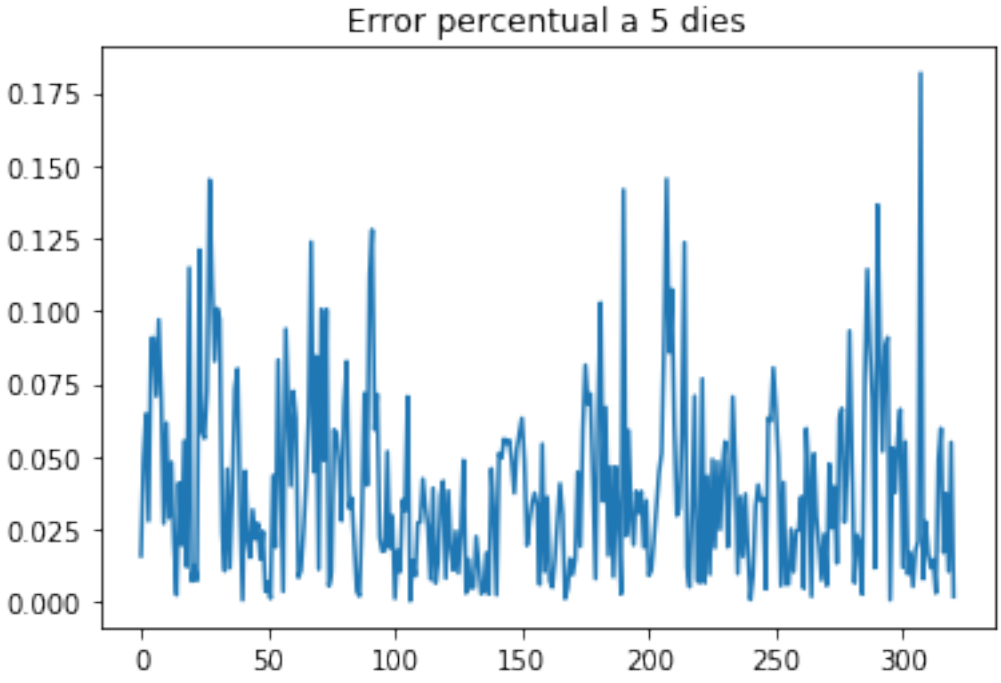

Predicció consum a 30 dies
13
12
11
10
9
8
7
0
50
100
150
200
250
300

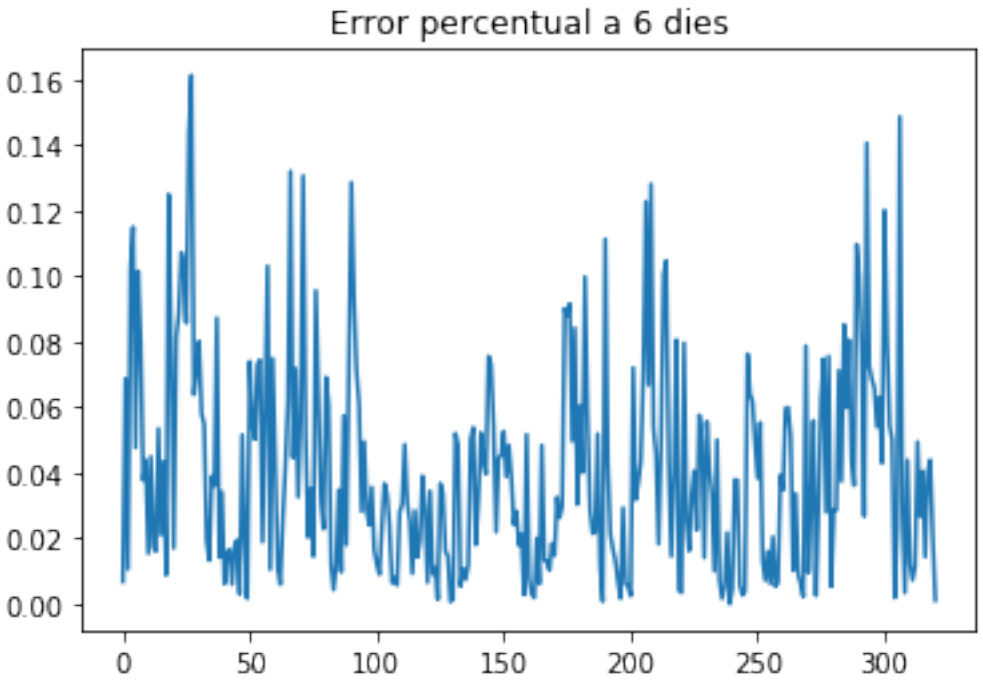

Error percentual a 1 dia
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
50
100
150
200
250
300

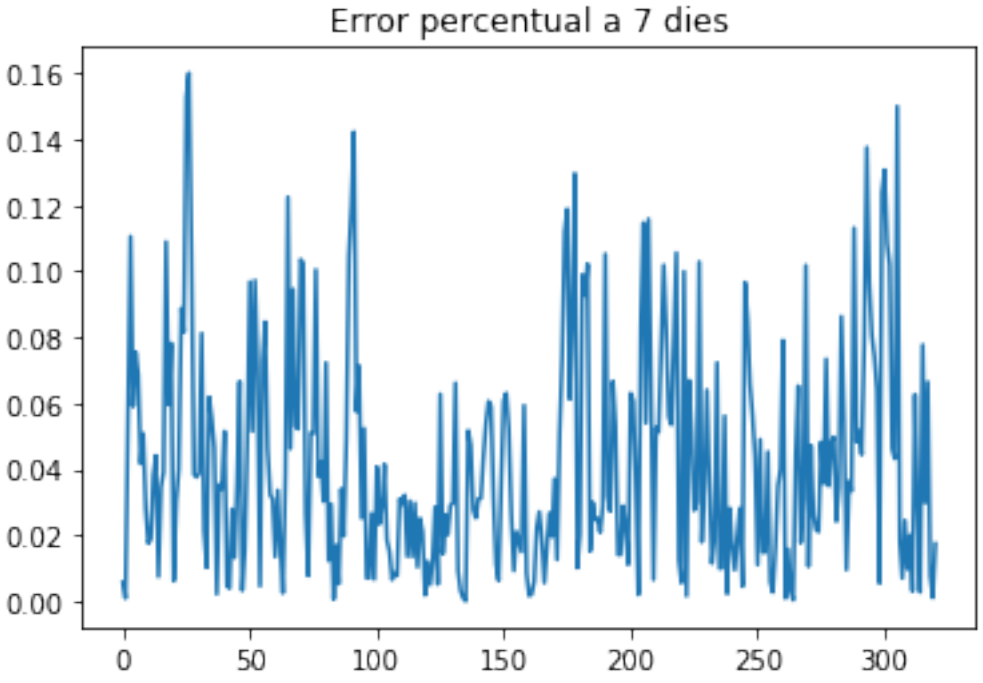

Error percentual a 2 dies
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
50
100
150
200
250
300

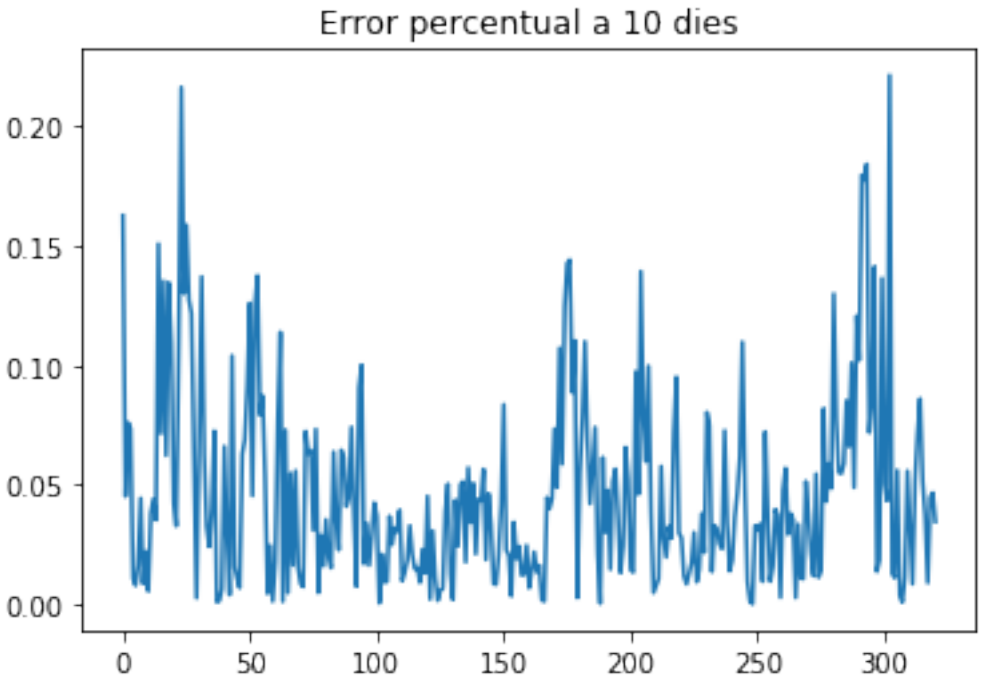

Error percentual a 3 dies
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0
50
100
150
200
250
300

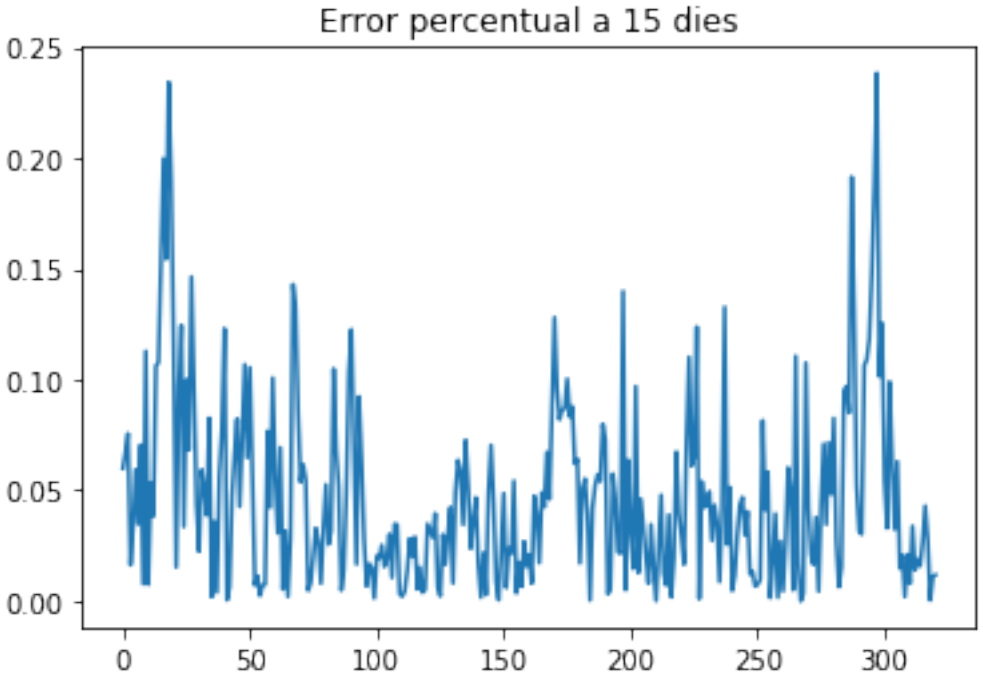

Error percentual a 4 dies
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
50
100
150
200
250
300

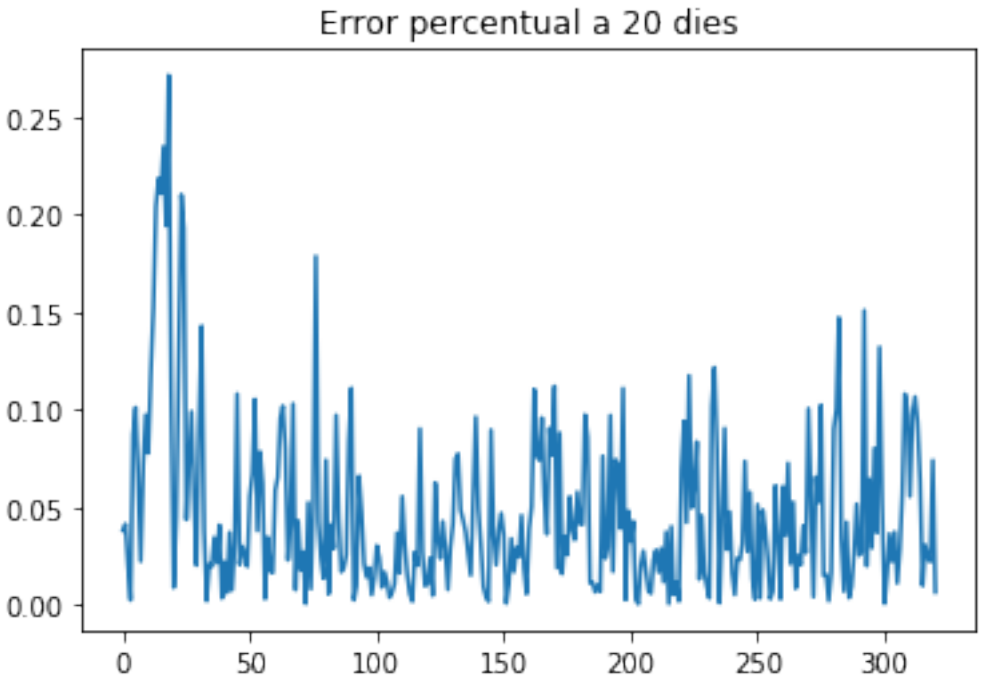

Error percentual a 5 dies
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0
50
100
150
200
250
300

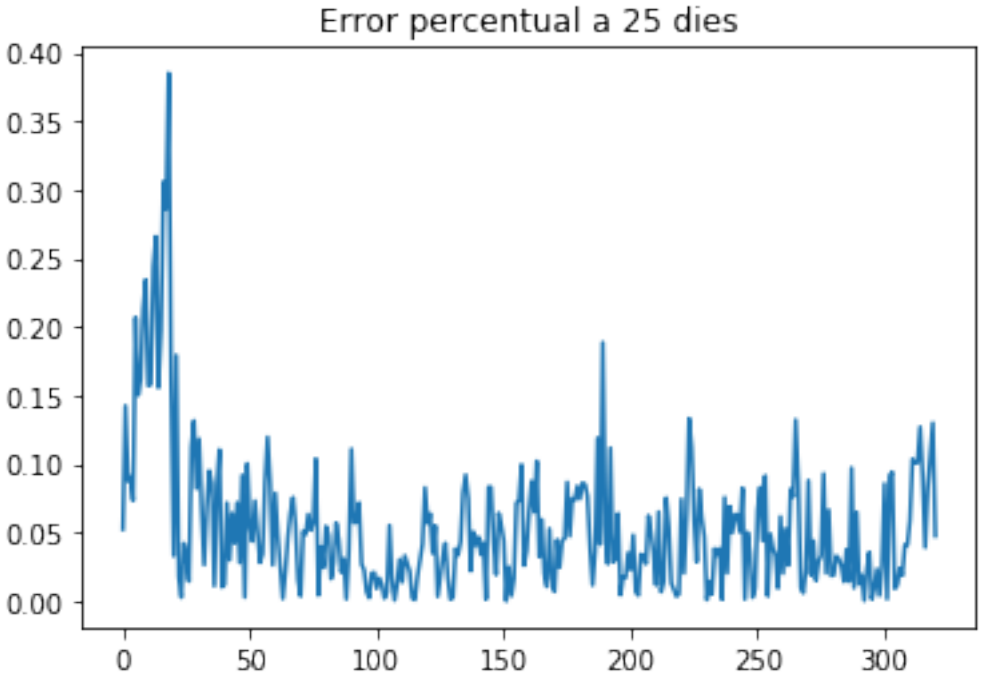

Error percentual a 6 dies
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
50
100
150
200
250
300

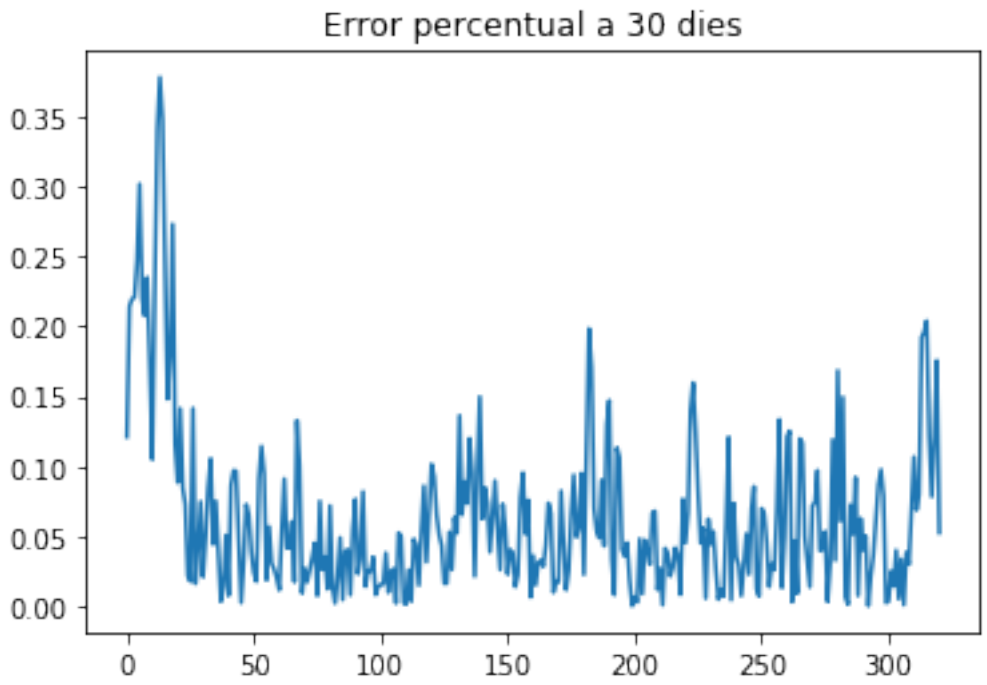

Error percentual a 7 dies
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
50
100
150
200
250
300


Error percentual a 10 dies
0.20
0.15
0.10
0.05
0.00
0
50
100
150
200
250
300


Error percentual a 15 dies
0.25
0.20
0.15
0.10
0.05
0.00
0
50
100
150
200
250
300


Error percentual a 20 dies
0.25
0.20
0.15
0.10
0.05
0.00
0
50
100
150
200
250
300


Error percentual a 25 dies
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
50
100
150
200
250
300




```
L'error mitjà a 1 dia és de 3.4155629885365033 %
L'error mitjà a 2 dies és de 3.435038616018267 %
L'error mitjà a 3 dies és de 3.6272238547226237 %
L'error mitjà a 4 dies és de 3.7341992245670785 %
L'error mitjà a 5 dies és de 3.922543222430704 %
L'error mitjà a 6 dies és de 4.098318260534777 %
L'error mitjà a 7 dies és de 4.27063737383024 %
L'error mitjà a 8 dies és de 4.319841789147668 %
L'error mitjà a 9 dies és de 4.585037871068335 %
L'error mitjà a 10 dies és de 4.630526471102679 %
L'error mitjà a 11 dies és de 4.74178437159315 %
L'error mitjà a 12 dies és de 4.690657502771326 %
L'error mitjà a 13 dies és de 4.86098757983995 %
L'error mitjà a 14 dies és de 4.692380482134837 %
L'error mitjà a 15 dies és de 4.707857514332385 %
L'error mitjà a 16 dies és de 4.9138177207568 %
L'error mitjà a 17 dies és de 5.0166324347546425 %
L'error mitjà a 18 dies és de 5.090880963978517 %
L'error mitjà a 19 dies és de 4.87361041373152 %
L'error mitjà a 20 dies és de 4.672330915157581 %
L'error mitjà a 21 dies és de 4.931706158084281 %
L'error mitjà a 22 dies és de 5.0438676326233765 %
L'error mitjà a 23 dies és de 5.114543004885975 %
L'error mitjà a 24 dies és de 5.275172035039056 %
L'error mitjà a 25 dies és de 5.415003327021586 %
```

```
L'error mitjà a 26 dies és de 5.439261632304306 %
L'error mitjà a 27 dies és de 5.638453581876803 %
L'error mitjà a 28 dies és de 5.989429692277341 %
L'error mitjà a 29 dies és de 6.204044733464207 %
L'error mitjà a 30 dies és de 6.384730483524267 %
```

```
In [24]: (error_mitja1+error_mitja2+error_mitja3+error_mitja4+error_mitja5+error_mitja6+error_
```

```
Out[24]: 4.791202728403693
```

```
In [ ]:
```