MM2c _Xarxa_walkforard_normalitzat_multivariate2_MULTISTEP30_tempm walkforwardaugment-Copy3

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/I
        daily.head(5)
```

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

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


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

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

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


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

In [4]: daily_dia.season[daily_dia.season=='summer']=1
        daily_dia.season[daily_dia.season=='spring']=2
        daily_dia.season[daily_dia.season=='autumn']=3
        daily_dia.season[daily_dia.season=='winter']=4

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

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
  """"Entry point for launching an IPython kernel.
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

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

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
  This is separate from the ipykernel package so we can avoid doing imports until
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

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
  after removing the cwd from sys.path.

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

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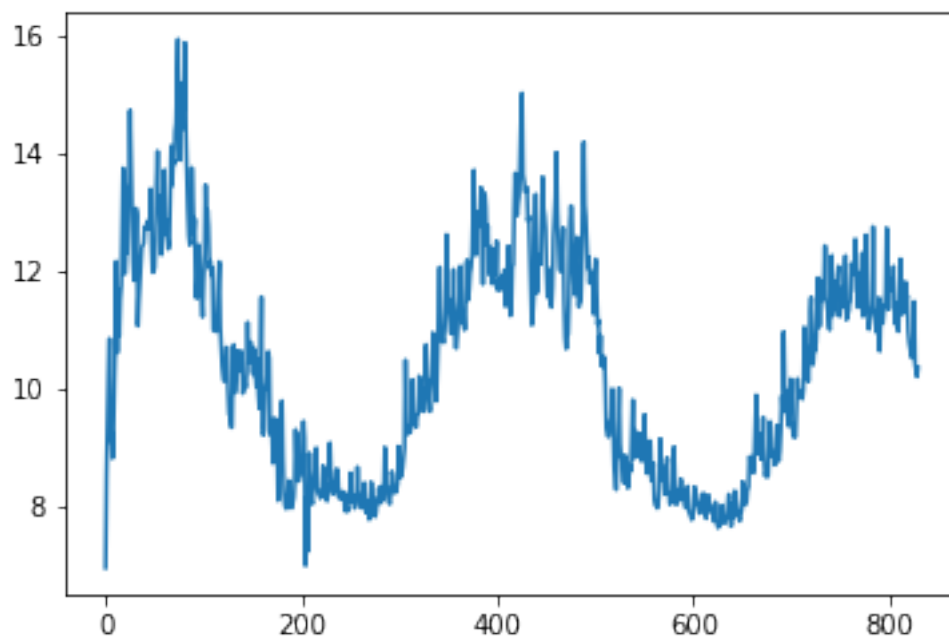

```
In [5]: daily_dia['y+1']=daily_dia['energy_sum'].shift(-1)
        daily_dia['y+2']=daily_dia['energy_sum'].shift(-2)
        daily_dia['y+3']=daily_dia['energy_sum'].shift(-3)
        daily_dia['y+4']=daily_dia['energy_sum'].shift(-4)
        daily_dia['y+5']=daily_dia['energy_sum'].shift(-5)
        daily_dia['y+6']=daily_dia['energy_sum'].shift(-6)
        daily_dia['y+7']=daily_dia['energy_sum'].shift(-7)
        daily_dia['y+8']=daily_dia['energy_sum'].shift(-8)
        daily_dia['y+9']=daily_dia['energy_sum'].shift(-9)
        daily_dia['y+10']=daily_dia['energy_sum'].shift(-10)
        daily_dia['y+11']=daily_dia['energy_sum'].shift(-11)
        daily_dia['y+12']=daily_dia['energy_sum'].shift(-12)
```

```python
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)
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)
```

```python
daily_dia['temp(t-13)']=daily_dia['apparentTemperatureMax'].shift(13)
daily_dia['temp(t-14)']=daily_dia['apparentTemperatureMax'].shift(14)

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

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

daily_dia['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)
```

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

```
daily_dia
```

Out[5]:

	index	date	energy_sum	apparentTemperatureMax \
0	735	2011-11-23	6.952692	10.36
1	736	2011-11-24	8.536480	12.93
2	682	2011-11-25	9.499781	13.03
3	713	2011-11-26	10.267707	12.96
4	609	2011-11-27	10.850805	13.54
5	641	2011-11-28	9.103382	12.58
6	265	2011-11-29	9.274873	13.47
7	571	2011-11-30	8.813513	11.87
8	199	2011-12-01	9.227707	12.15
9	338	2011-12-02	10.145910	5.33
10	131	2011-12-03	10.780273	11.42
11	100	2011-12-04	12.163127	6.66
12	176	2011-12-05	10.609714	3.13
13	203	2011-12-06	11.673417	3.77
14	240	2011-12-07	10.889362	5.14
15	299	2011-12-08	11.525150	12.89
16	294	2011-12-09	11.759837	3.99
17	455	2011-12-10	12.633801	3.14
18	215	2011-12-11	13.749174	5.72
19	115	2011-12-12	11.951958	5.94
20	22	2011-12-13	11.957446	12.08
21	45	2011-12-14	12.392776	2.88
22	59	2011-12-15	12.307079	4.38
23	11	2011-12-16	13.376080	0.99
24	228	2011-12-17	13.511968	1.72
25	478	2011-12-18	14.732271	1.98

26	412	2011-12-19	13.774471	4.02
27	433	2011-12-20	12.709106	4.98
28	524	2011-12-21	12.148570	12.14
29	689	2011-12-22	11.839403	12.14
..	...	...	...	...
800	41	2014-01-29	11.800777	2.53
801	105	2014-01-30	11.685169	5.86
802	80	2014-01-31	11.857957	5.27
803	21	2014-02-01	11.710582	6.86
804	163	2014-02-02	12.078164	6.48
805	135	2014-02-03	11.280011	4.59
806	60	2014-02-04	11.095584	5.63
807	3	2014-02-05	11.415105	5.86
808	18	2014-02-06	11.445403	7.34
809	14	2014-02-07	10.972318	8.44
810	0	2014-02-08	11.569300	5.67
811	7	2014-02-09	12.202967	3.91
812	35	2014-02-10	11.264175	7.07
813	57	2014-02-11	11.452649	4.06
814	44	2014-02-12	11.679099	4.73
815	33	2014-02-13	11.285737	3.42
816	23	2014-02-14	11.816914	12.02
817	13	2014-02-15	11.490470	5.79
818	187	2014-02-16	11.582159	7.88
819	218	2014-02-17	10.979566	10.67
820	235	2014-02-18	10.781898	10.13
821	322	2014-02-19	10.674624	10.13
822	101	2014-02-20	10.573835	12.50
823	129	2014-02-21	10.518126	10.15
824	248	2014-02-22	10.776242	11.63
825	285	2014-02-23	11.480411	11.94
826	158	2014-02-24	10.411403	14.23
827	95	2014-02-25	10.294997	11.43
828	360	2014-02-26	10.202945	11.29
829	197	2014-02-27	10.356350	10.31

	apparentTemperatureMin	humidity	weekday	season	y+1	y+2 \
0	2.18	0.93	3	3	8.536480	9.499781
1	7.01	0.89	4	3	9.499781	10.267707
2	4.84	0.79	5	3	10.267707	10.850805
3	4.69	0.81	6	3	10.850805	9.103382
4	2.94	0.72	7	3	9.103382	9.274873
5	1.31	0.86	1	3	9.274873	8.813513
6	3.39	0.82	2	3	8.813513	9.227707
7	3.34	0.78	3	3	9.227707	10.145910
8	5.29	0.82	4	3	10.145910	10.780273
9	0.46	0.87	5	3	10.780273	12.163127
10	4.71	0.79	6	3	12.163127	10.609714

11	1.03	0.82	7	3	10.609714	11.673417
12	-1.69	0.77	1	3	11.673417	10.889362
13	-1.61	0.83	2	3	10.889362	11.525150
14	0.94	0.68	3	3	11.525150	11.759837
15	0.63	0.81	4	3	11.759837	12.633801
16	-1.42	0.71	5	3	12.633801	13.749174
17	-3.42	0.81	6	3	13.749174	11.951958
18	0.11	0.88	7	3	11.951958	11.957446
19	-0.64	0.84	1	3	11.957446	12.392776
20	0.22	0.75	2	3	12.392776	12.307079
21	0.78	0.79	3	3	12.307079	13.376080
22	1.07	0.77	4	3	13.376080	13.511968
23	-2.65	0.88	5	3	13.511968	14.732271
24	-3.56	0.86	6	3	14.732271	13.774471
25	-4.12	0.84	7	3	13.774471	12.709106
26	-3.67	0.94	1	3	12.709106	12.148570
27	1.68	0.81	2	3	12.148570	11.839403
28	3.84	0.94	3	3	11.839403	12.254989
29	5.37	0.87	4	4	12.254989	13.065317
..	...	...	...	...	...	...
800	0.18	0.90	3	4	11.685169	11.857957
801	0.61	0.91	4	4	11.857957	11.710582
802	0.29	0.91	5	4	11.710582	12.078164
803	1.10	0.76	6	4	12.078164	11.280011
804	3.21	0.72	7	4	11.280011	11.095584
805	1.96	0.79	1	4	11.095584	11.415105
806	1.12	0.75	2	4	11.415105	11.445403
807	1.03	0.77	3	4	11.445403	10.972318
808	1.96	0.82	4	4	10.972318	11.569300
809	-0.86	0.79	5	4	11.569300	12.202967
810	2.19	0.77	6	4	12.202967	11.264175
811	1.38	0.66	7	4	11.264175	11.452649
812	0.89	0.84	1	4	11.452649	11.679099
813	-0.57	0.76	2	4	11.679099	11.285737
814	-1.20	0.75	3	4	11.285737	11.816914
815	0.05	0.68	4	4	11.816914	11.490470
816	0.45	0.81	5	4	11.490470	11.582159
817	1.77	0.69	6	4	11.582159	10.979566
818	-1.03	0.76	7	4	10.979566	10.781898
819	2.84	0.83	1	4	10.781898	10.674624
820	3.83	0.87	2	4	10.674624	10.573835
821	2.65	0.87	3	4	10.573835	10.518126
822	3.95	0.84	4	4	10.518126	10.776242
823	0.19	0.72	5	4	10.776242	11.480411
824	1.59	0.71	6	4	11.480411	10.411403
825	5.53	0.76	7	4	10.411403	10.294997
826	5.52	0.74	1	4	10.294997	10.202945
827	3.89	0.78	2	4	10.202945	10.356350

					1.67	0.73	3	4	10.356350	NaN
828					1.67	0.73	3	4	10.356350	NaN
829					1.41	0.74	4	4	NaN	NaN

	...	season(t-5)	season(t-6)	season(t-7)	season(t-8)	season(t-9) \
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	...	3	NaN	NaN	NaN	NaN
6	...	3	3	NaN	NaN	NaN
7	...	3	3	3	NaN	NaN
8	...	3	3	3	3	NaN
9	...	3	3	3	3	3
10	...	3	3	3	3	3
11	...	3	3	3	3	3
12	...	3	3	3	3	3
13	...	3	3	3	3	3
14	...	3	3	3	3	3
15	...	3	3	3	3	3
16	...	3	3	3	3	3
17	...	3	3	3	3	3
18	...	3	3	3	3	3
19	...	3	3	3	3	3
20	...	3	3	3	3	3
21	...	3	3	3	3	3
22	...	3	3	3	3	3
23	...	3	3	3	3	3
24	...	3	3	3	3	3
25	...	3	3	3	3	3
26	...	3	3	3	3	3
27	...	3	3	3	3	3
28	...	3	3	3	3	3
29	...	3	3	3	3	3
..	...	...	...	...	...	...
800	...	4	4	4	4	4
801	...	4	4	4	4	4
802	...	4	4	4	4	4
803	...	4	4	4	4	4
804	...	4	4	4	4	4
805	...	4	4	4	4	4
806	...	4	4	4	4	4
807	...	4	4	4	4	4
808	...	4	4	4	4	4
809	...	4	4	4	4	4
810	...	4	4	4	4	4
811	...	4	4	4	4	4
812	...	4	4	4	4	4

813	...	4	4	4	4	4
814	...	4	4	4	4	4
815	...	4	4	4	4	4
816	...	4	4	4	4	4
817	...	4	4	4	4	4
818	...	4	4	4	4	4
819	...	4	4	4	4	4
820	...	4	4	4	4	4
821	...	4	4	4	4	4
822	...	4	4	4	4	4
823	...	4	4	4	4	4
824	...	4	4	4	4	4
825	...	4	4	4	4	4
826	...	4	4	4	4	4
827	...	4	4	4	4	4
828	...	4	4	4	4	4
829	...	4	4	4	4	4

	season(t-10)	season(t-11)	season(t-12)	season(t-13)	season(t-14)
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	NaN	NaN	NaN	NaN	NaN
10	3	NaN	NaN	NaN	NaN
11	3	3	NaN	NaN	NaN
12	3	3	3	NaN	NaN
13	3	3	3	3	NaN
14	3	3	3	3	3
15	3	3	3	3	3
16	3	3	3	3	3
17	3	3	3	3	3
18	3	3	3	3	3
19	3	3	3	3	3
20	3	3	3	3	3
21	3	3	3	3	3
22	3	3	3	3	3
23	3	3	3	3	3
24	3	3	3	3	3
25	3	3	3	3	3
26	3	3	3	3	3
27	3	3	3	3	3
28	3	3	3	3	3

```
29              3           3           3           3           3
..            ...         ...         ...         ...         ...
800             4           4           4           4           4
801             4           4           4           4           4
802             4           4           4           4           4
803             4           4           4           4           4
804             4           4           4           4           4
805             4           4           4           4           4
806             4           4           4           4           4
807             4           4           4           4           4
808             4           4           4           4           4
809             4           4           4           4           4
810             4           4           4           4           4
811             4           4           4           4           4
812             4           4           4           4           4
813             4           4           4           4           4
814             4           4           4           4           4
815             4           4           4           4           4
816             4           4           4           4           4
817             4           4           4           4           4
818             4           4           4           4           4
819             4           4           4           4           4
820             4           4           4           4           4
821             4           4           4           4           4
822             4           4           4           4           4
823             4           4           4           4           4
824             4           4           4           4           4
825             4           4           4           4           4
826             4           4           4           4           4
827             4           4           4           4           4
828             4           4           4           4           4
829             4           4           4           4           4

[830 rows x 122 columns]
```

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

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

              y+6   y+7   y+8   y+9 ... season(t-5) season(t-6) \

11

```
0   9.274873    8.813513    9.227707   10.145910  ...           NaN           NaN
1   8.813513    9.227707   10.145910   10.780273  ...           NaN           NaN
2   9.227707   10.145910   10.780273   12.163127  ...           NaN           NaN
3  10.145910   10.780273   12.163127   10.609714  ...           NaN           NaN
4  10.780273   12.163127   10.609714   11.673417  ...           NaN           NaN

   season(t-7)  season(t-8)  season(t-9)  season(t-10)  season(t-11)  \
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

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

[5 rows x 115 columns]
```

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

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

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

              y+6   y+7   y+8   y+9 ... season(t-5) season(t-6) \
    14 11.957446 12.392776 12.307079 13.376080 ...   3   3
    15 12.392776 12.307079 13.376080 13.511968 ...   3   3
    16 12.307079 13.376080 13.511968 14.732271 ...   3   3
    17 13.376080 13.511968 14.732271 13.774471 ...   3   3
    18 13.511968 14.732271 13.774471 12.709106 ...   3   3

        season(t-7) season(t-8) season(t-9) season(t-10) season(t-11) \
    14   3   3   3   3   3
    15   3   3   3   3   3
    16   3   3   3   3   3
    17   3   3   3   3   3
    18   3   3   3   3   3
```

```
        season(t-12)   season(t-13)   season(t-14)
14                3              3              3
15                3              3              3
16                3              3              3
17                3              3              3
18                3              3              3

[5 rows x 115 columns]
```

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

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


                    y+6         y+7         y+8         y+9   ...   season(t-5)  \
        795   11.685169   11.857957   11.710582   12.078164   ...            4
        796   11.857957   11.710582   12.078164   11.280011   ...            4
        797   11.710582   12.078164   11.280011   11.095584   ...            4
        798   12.078164   11.280011   11.095584   11.415105   ...            4
        799   11.280011   11.095584   11.415105   11.445403   ...            4


              season(t-6)   season(t-7)   season(t-8)   season(t-9)   season(t-10)  \
        795             4             4             4             4              4
        796             4             4             4             4              4
        797             4             4             4             4              4
        798             4             4             4             4              4
        799             4             4             4             4              4


              season(t-11)   season(t-12)   season(t-13)   season(t-14)
        795              4              4              4              4
        796              4              4              4              4
        797              4              4              4              4
        798              4              4              4              4
        799              4              4              4              4

[5 rows x 115 columns]
```

In [9]: len(daily_dia)

Out[9]: 786

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

```
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\sklearn\preprocessing\
  return self.partial_fit(X, y)


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 [10]: #Seleccionem dades per test i train
         y_daily=daily_dia_norm[:,0:30]
         X_daily=daily_dia_norm[:,31:115]

         #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], 14,6))

In [11]: # definim model
         import tensorflow as tf
         model =Sequential()
         model.add(LSTM(50, activation='relu', input_shape=(14, 6)))
         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 [12]: import math
         from sklearn.metrics import mean_squared_error

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

         llista_evaluate=list()
         llista_prediccions=list()
```

```python
        llista_preditrain=list()
        llista_scores=list()
        llista_scoretrain=list()
        sumScores=0

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

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

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

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

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

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


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

            sumScores=sumScores+testScore
```

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


```python
In [13]: #Dividim la suma de scores de test entre el nombre de prediccions per obtenir la mitj
         sumScores/(lenght-n_train)
```

Out[13]: 0.06683502053143152

```python
In [14]: #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[14]: [[[0.5201154947280884,
           0.57258540391922,
           0.5477834939956665,
           0.5548818707466125,
           0.5255381464958191,
           0.5300236940383911,
           0.5524170398712158,
           0.5534960627555847,
           0.5827473998069763,
           0.5835456848144531,
           0.5462130308151245,
           0.5532469153404236,
           0.5350103974342346,
           0.5152299404144287,
           0.5162147879600525,
           0.5724096894264221,
           0.563713788986206,
           0.5585194826126099,
           0.5398005247116089,
           0.5288397073745728,
           0.49082693457603455,
           0.5428781509399414,
           0.5460954308509827,
           0.5666131377220154,
           0.530038058757782,
           0.5088822245597839,
           0.5139760375022888,
           0.5381553769111633,
           0.509874165058136,
           0.5367300510406494]],
          [[0.5903691649436951,
           0.6007623672485352,
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           0.5362544655799866,
           0.5538846254348755,
           0.5445822477340698,
           0.5955492854118347,
           0.6212124824523926,
           0.6166146397590637,
           0.5370705127716064,
           0.5570830702781677,
           0.532254695892334,
           0.5558966994285583,
           0.5800430774688721,
           0.6362990140914917,
           0.5908086895942688,
           0.5287664532661438,
```

```
    0.526906430721283,
    0.5356926918029785,
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    0.5355234146118164,
    0.5312169790267944,
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    0.5335950255393982,
    0.5684177875518799,
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 [[0.6109429597854614,
    0.6038237810134888,
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    0.5818980932235718,
    0.6059460639953613,
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    0.6282302141189575,
    0.5865979790687561,
    0.5866165161132812,
    0.577479362487793,
    0.5703319907188416,
    0.616852879524231,
    0.6642515063285828,
    0.6368058323860168,
    0.5873316526412964,
    0.5760811567306519,
    0.5612125396728516,
    0.5886306762695312,
    0.6395292282104492,
    0.6313571929931641,
    0.6504794955253601,
    0.6145718097686768,
    0.5830118060112,
    0.5963476300239563,
    0.6226661801338196,
    0.6072221994400024,
    0.6115534901618958,
    0.594938337802887]],
 [[0.6214200258255005,
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    0.5628020763397217,
    0.5811384916305542,
    0.6366580128669739,
```

```
    0.614855945110321,
    0.621578574180603,
    0.6298423409461975,
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    0.57375568151474,
    0.6110804080963135,
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    0.6076065301895142,
    0.5835800170898438,
    0.5637692213058472,
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    0.6038990616798401,
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    0.5747216939926147,
    0.5884345769882202,
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    0.4887200593948364,
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```

```
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```
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  0.6410804986953735,
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  0.562718391418457,
  0.5524724125862122,
```

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In [15]: #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()
```

```python
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()
```

```python
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 [16]:
```
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))
```

```python
        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: 0.049337510671949955
Error predicció 2 dia següent: 0.05897883062919062
Error predicció 3 dia següent: 0.06308163453592287
Error predicció 4 dia següent: 0.06076977549774085
Error predicció 5 dia següent: 0.06185609714249502
Error predicció 6 dia següent: 0.0658331079577589
Error predicció 7 dia següent: 0.06630949526493879
Error predicció 8 dia següent: 0.06487907805059497
Error predicció 9 dia següent: 0.06176333974508744
Error predicció 10 dia següent: 0.06167442294976592
Error predicció 11 dia següent: 0.06489166695618023
Error predicció 12 dia següent: 0.0633890872948724
Error predicció 13 dia següent: 0.06410856965239496
Error predicció 14 dia següent: 0.06740741075519648
Error predicció 15 dia següent: 0.06579254830515392
Error predicció 16 dia següent: 0.06781236356485676
Error predicció 17 dia següent: 0.06973841197166078
Error predicció 18 dia següent: 0.07329898283603126
Error predicció 19 dia següent: 0.08014305436219984
Error predicció 20 dia següent: 0.0790957178746485
Error predicció 21 dia següent: 0.07736549340943488
Error predicció 22 dia següent: 0.08074311309114227
Error predicció 23 dia següent: 0.08154709379866976
Error predicció 24 dia següent: 0.08542792623423501
```

```
Error predicció 25 dia següent: 0.09000969423883756
Error predicció 26 dia següent: 0.09035396831295313
Error predicció 27 dia següent: 0.09385145297983044
Error predicció 28 dia següent: 0.08878927255861549
Error predicció 29 dia següent: 0.09002641503730122
Error predicció 30 dia següent: 0.09706075845981398
```

```python
In [17]: 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[17]: array([[0.52011549, 0.5725854 , 0.54778349, ..., 0.53815538, 0.50987417,
                 0.53673005],
                [0.59036916, 0.60076237, 0.57737678, ..., 0.53359503, 0.56841779,
                 0.58591741],
                [0.61094296, 0.60382378, 0.57719922, ..., 0.6072222 , 0.61155349,
                 0.59493834],
                ...,
                [0.61092579, 0.60336018, 0.59971058, ..., 0.4711085 , 0.50238907,
                 0.42846608],
                [0.53898466, 0.49409243, 0.4922812 , ..., 0.66813946, 0.55742007,
                 0.56010592],
                [0.48552251, 0.44692984, 0.47940376, ..., 0.46833837, 0.415095  ,
                 0.40220541]])
```

```python
In [18]: ##Mostrem
         plt.plot(predis[4], label="predit")
         plt.plot(y_daily[n_train+4], label="real")
         plt.legend(loc="lower right")
         plt.show()
```
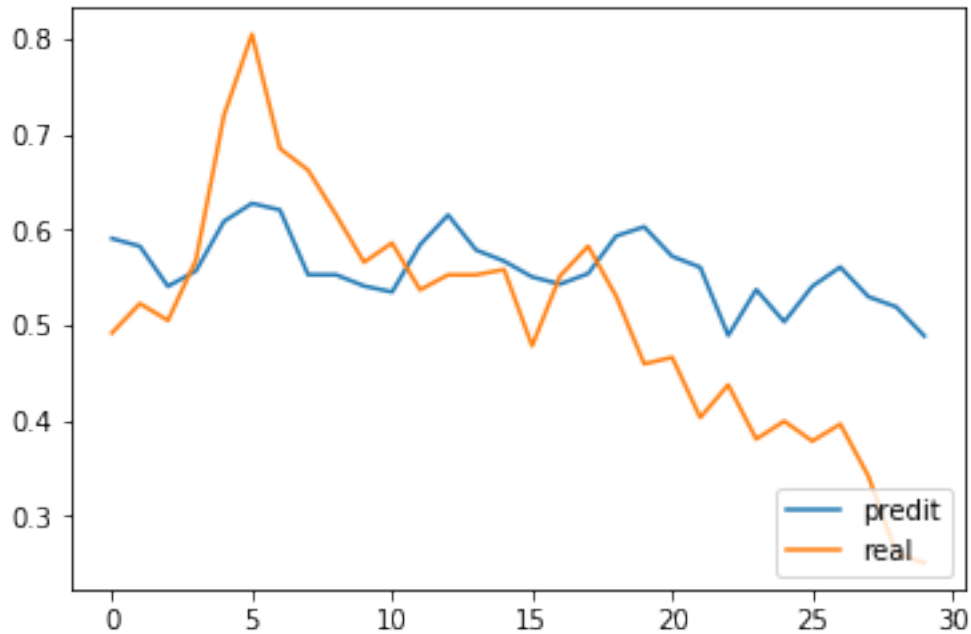
```
In [19]:  ##Mostrem
          plt.plot(llista_p0, label="predit1")
          plt.plot(y_daily[n_train:lenght,0], label="real")
          plt.legend(loc="lower right")
          plt.title("Predicció 1 dia següent")
          plt.show()

          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()
```

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

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

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

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

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

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

Predicció 1 dia següent
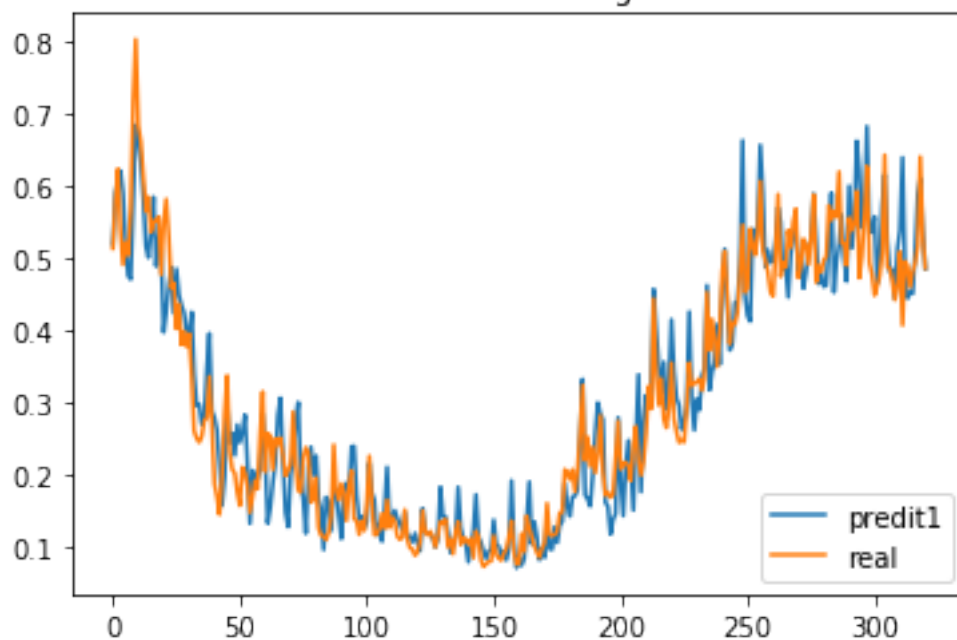
Predicció 2 dia següent
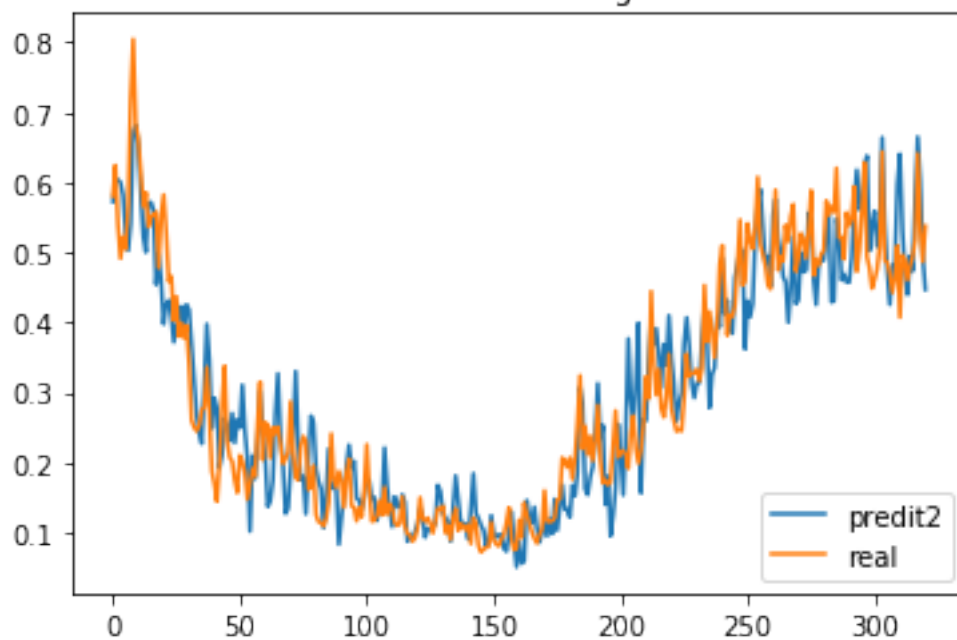
Predicció 3 dia següent
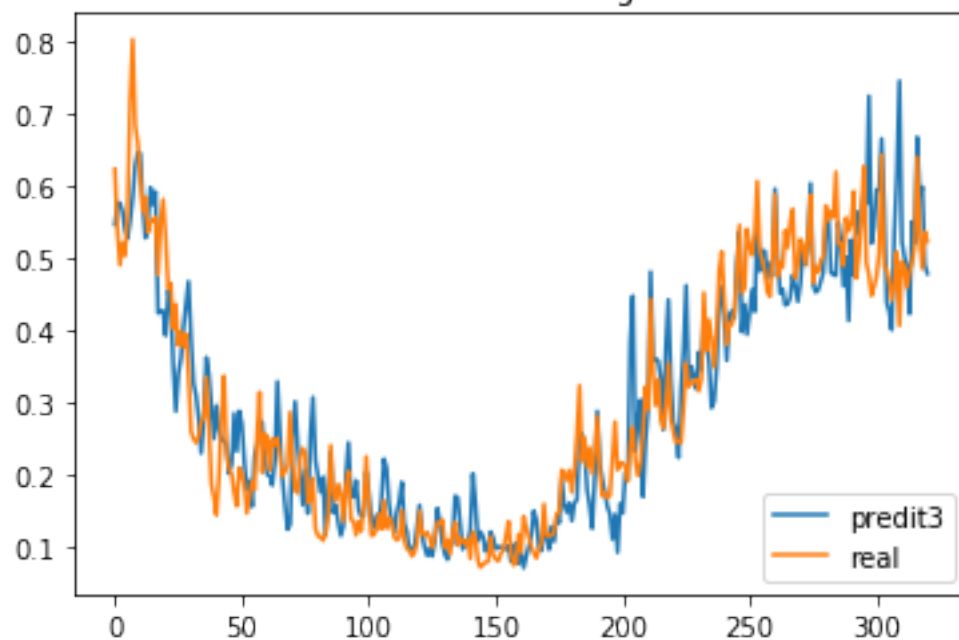
Predicció 4 dia següent
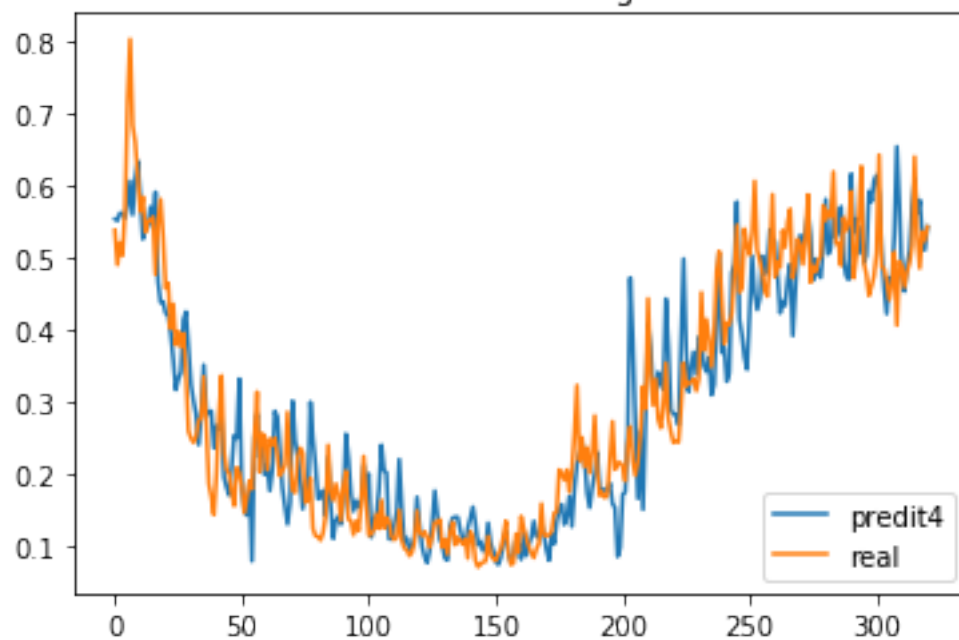
Predicció 5 dia següent
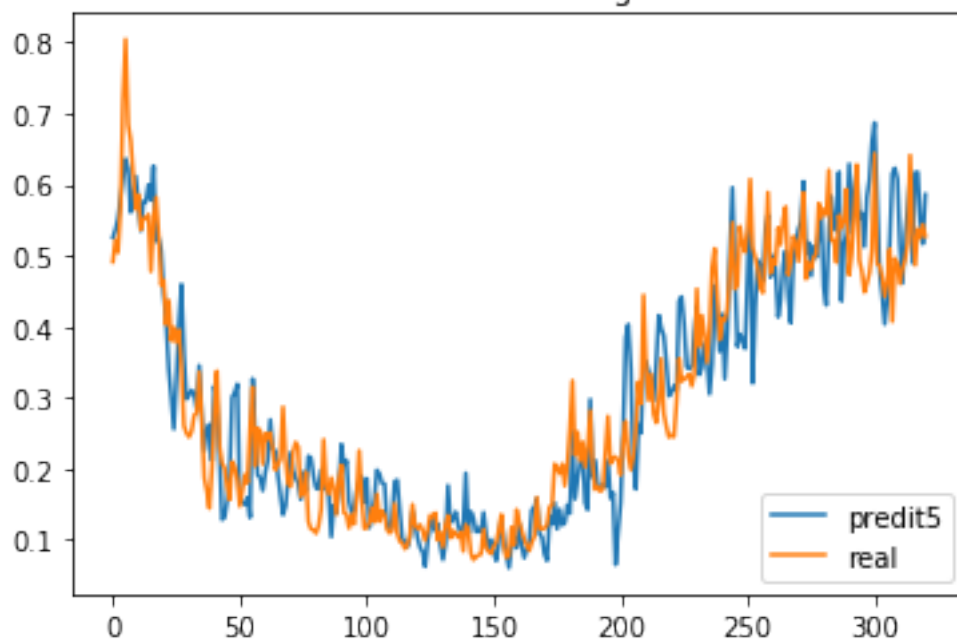
Predicció 6 dia següent
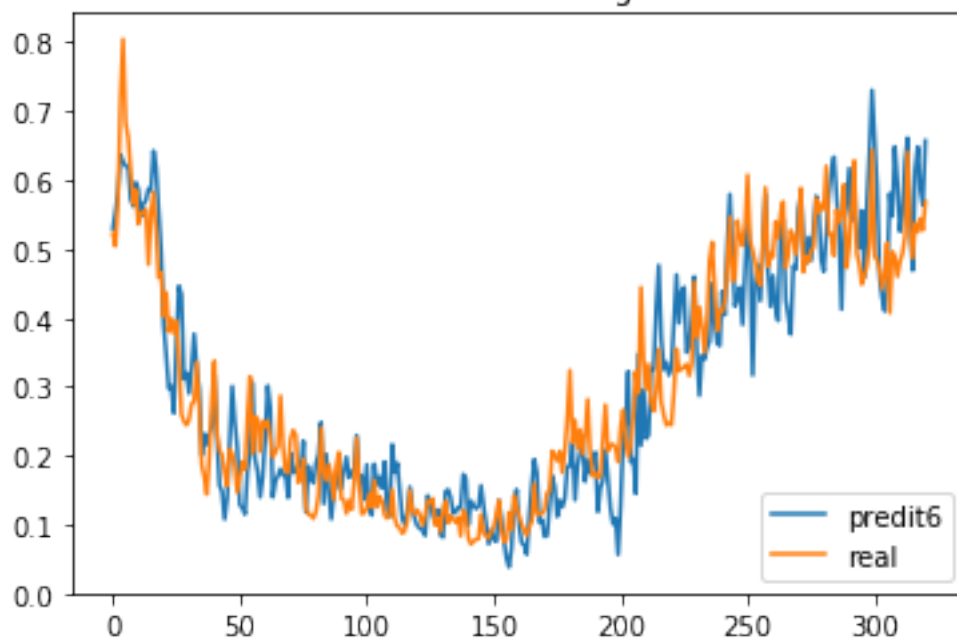
Predicció 7 dia següent
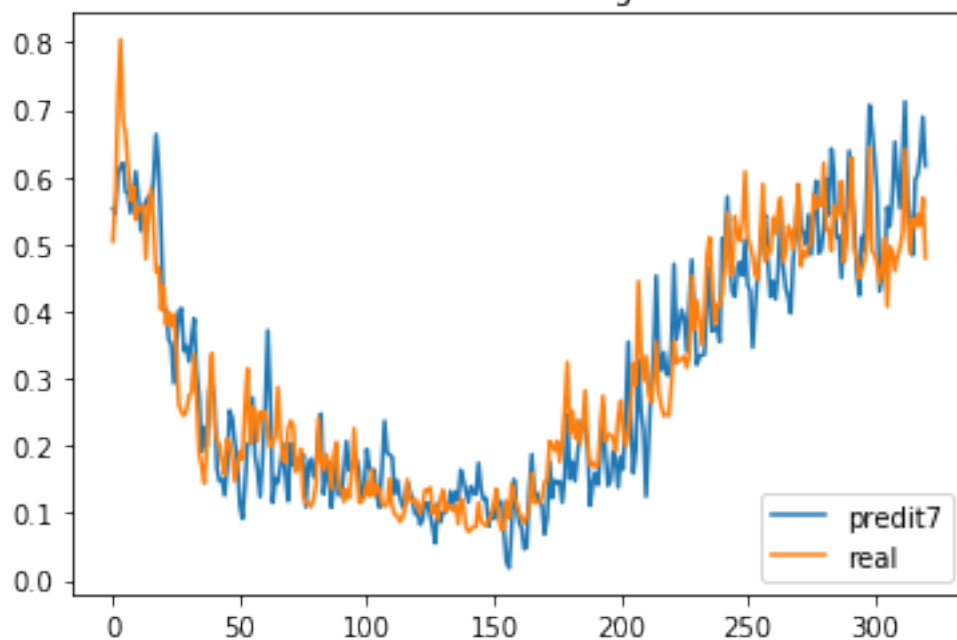
Predicció 15 dia següent
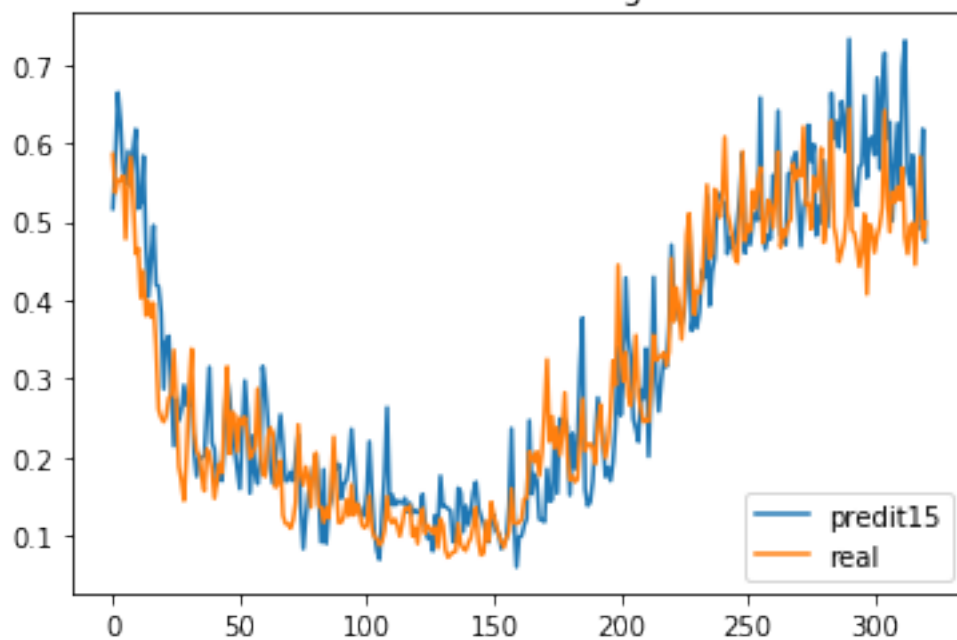
Predicció 22 dia següent
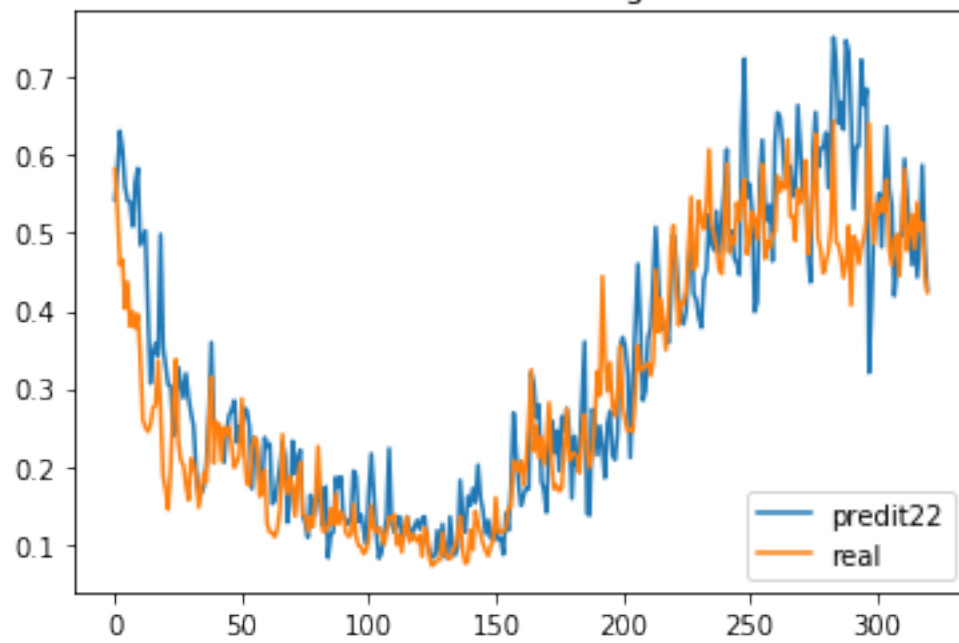
Predicció 30 dia següent
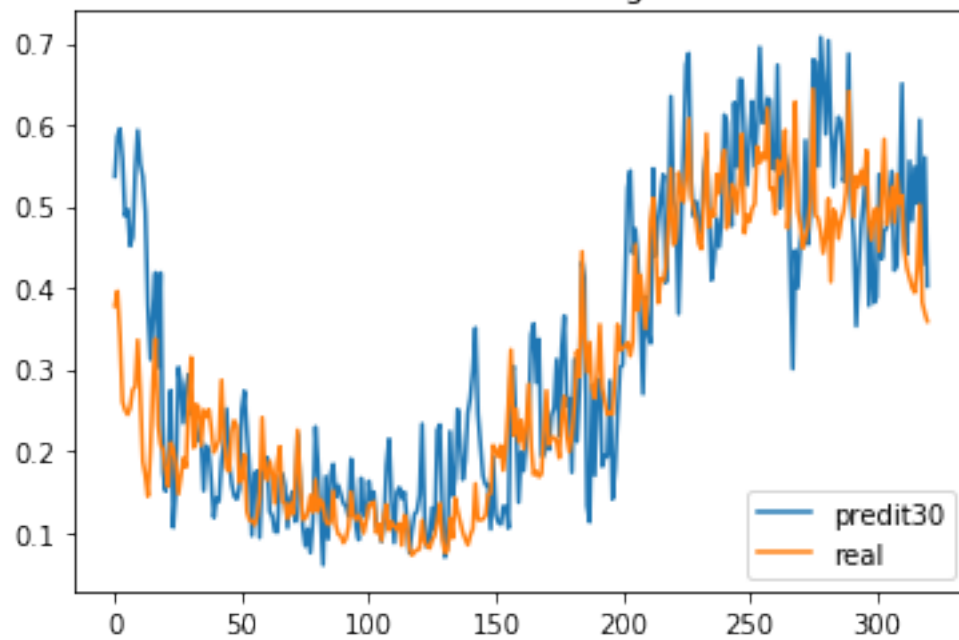
In [ ]:

```
In [20]: llista_scores

Out[20]: [0.08711969122527495,
          0.09624647643968068,
          0.12998621732685955,
          0.1303679701045995,
          0.11634093171543142,
          0.13892377396801847,
          0.1507331446861827,
          0.14212074260956026,
          0.15952174724978416,
          0.18644792051781023,
          0.1412361212940386,
          0.15417031628201674,
          0.1673852558966843,
          0.13500145370021893,
          0.08308267636755198,
          0.10085740583008673,
          0.12196233153718757,
          0.11333576512589463,
          0.14337330094803988,
          0.09239766615973659,
          0.08256777089246124,
          0.07570935982134054,
          0.08175013280266091,
          0.062188338938750205,
          0.06715890815212987,
          0.0687782800508069,
          0.07667248218096918,
          0.08884172489435443,
          0.09716483175734555,
          0.083855665828264,
          0.059924989095240085,
          0.07347510739945373,
          0.06158942760248792,
          0.04303486258781702,
          0.047480764491514865,
          0.05123388607901494,
          0.04610697609864894,
          0.058640526303610246,
          0.061272420072633664,
          0.04606118226759911,
          0.06061183878169947,
          0.049662387168552945,
          0.04554464525293347,
          0.052036783953473546,
          0.04738280577926009,
          0.04402355339504421,
```

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0.03624474522929051,
0.06787241017909278,
0.06032862625610321,
0.07523209643352372,
0.07808268333217974,
0.07179695880064205,
0.07011337763072326,
0.05687258697887423,
0.06609208088905391,
0.07861716851004272,
0.05931437722420502,
0.05307899481744767,
0.05562602455433672,
0.057659959419796285,
0.05496687186586717,
0.09219980258026322,
0.05305717332917053,
0.06876884568867396,
0.0593622423032546,
0.05311526805448335,
0.04951791521030245,
0.05832598759923925,
0.06518288498357748,
0.06472747992786701,
0.0585750957542439,
0.04890092309763126,
0.056496776248410686,
0.04132271504595142,
0.048336920743470936,
0.05432261912913469,
0.04755892357833311,
0.04526225031884926,
0.054899250728569084,
0.042754620915617145,
0.04960256170182959,
0.032541694353666654,
0.053440710715524725,
0.049509961871682474,
0.046870214486127625,
0.03437643362991896,
0.03737220714763979,
0.027179131292892404,
0.0298325535684924,
0.04866234033949946,
0.032364321420343865,
0.03573529537620647,
0.04243916640132997,
0.041182034146588976,

0.04260107043036726,
0.04450668977797967,
0.026475737985735284,
0.035982928456375435,
0.02986001590443368,
0.027068464582736526,
0.05394509873267372,
0.03986065088940416,
0.032018161530634165,
0.025534305963843783,
0.02587303500564176,
0.03476662616854993,
0.04418489880062663,
0.06495064329690933,
0.06159681743537172,
0.025074857296370663,
0.0329759505195958,
0.03904881058682167,
0.04889490472690142,
0.033149157719035205,
0.021916291910045394,
0.013867354073943728,
0.013390898383470774,
0.021564087450395977,
0.02751186186916875,
0.030791066603246296,
0.03223590908571527,
0.045499749712043895,
0.020120195938074584,
0.019047084379180824,
0.023381513997606494,
0.03393929527229056,
0.02658295639359953,
0.049125296647986795,
0.027726419502971125,
0.02659083537130112,
0.021786361956129558,
0.02703078176416172,
0.07059165708998962,
0.04107367101477307,
0.030997489775662024,
0.03831172049033201,
0.04284100469768812,
0.037077636764257176,
0.04935248896142426,
0.08407827948251487,
0.07450533769119765,
0.08679471506450726,

0.0772219628337393,
0.058363830841835156,
0.05233690916699736,
0.04192798354428849,
0.03175916140084546,
0.02791666350190557,
0.02063447197441984,
0.016504878094805595,
0.027279137709855638,
0.0347722560808643,
0.034210471893005974,
0.03080753657171286,
0.0289462764757439,
0.0498597643649156,
0.03542364627860815,
0.04529878302688772,
0.024675314094348467,
0.036215730080083705,
0.035830648585244936,
0.048552389907534244,
0.04592509740587872,
0.056713381263383905,
0.05531228387426964,
0.07491785051765791,
0.050063291441141,
0.07386424536482464,
0.047218051352116465,
0.057501497769726864,
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0.06370755848629035,
0.06590586405041418,
0.06517537340208453,
0.05426210654442656,
0.06473224241639758,
0.05992467921380689,
0.0473500955546728,
0.039446126284600674,
0.06654835086762619,
0.06607791545901803,
0.05282772975983665,
0.04547404186862155,
0.0845610235810402,
0.06267111223704686,
0.09741389784593947,
0.10041053466883217,
0.06028758277729796,
0.06278276411847836,

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0.05645774355867514,
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0.056583264585967324,
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0.08417469086803452,
0.06583203086285247,
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0.06661860298399226,
0.04699028137721776,
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0.06978639554558687,
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0.04938058589759944,
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0.09354938643017444,
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0.06668918994086157,
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0.06572553991220387,
0.06989964616484974,
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0.05976549552306554,
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0.06822397404639774,
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0.05644470390322345,
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0.1271415271976105,
0.07372948494148442,
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0.05745744299152366,
0.0477553234447893,
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0.08289547399329729,
0.11179357624258174,
0.08832585189717221,
0.11396797679365206,
0.0904471103580434,
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0.09786396140503326,
0.07765015448514571,
0.1275256965227436,
0.16157939935438873,
0.14415359708675896,

```
        0.12495723696893629,
        0.1346012982112674,
        0.1588210135184336,
        0.1354739746298577,
        0.11570691974318757,
        0.09606013775415052,
        0.10905952988426132,
        0.11946614476646705,
        0.11600942376660563,
        0.10374612840018757,
        0.11358313855658662,
        0.17806035811688564,
        0.1066698166350706,
        0.08793846506619923,
        0.0969194854897432,
        0.13877421189013323,
        0.08360293933081454,
        0.09404951338325707,
        0.07086728873066092,
        0.06743554369241261,
        0.0713803253972238,
        0.07247388884960387,
        0.09337552870580959,
        0.10468231301915698,
        0.06743121261072259,
        0.09407182442895996,
        0.1309288683623133,
        0.07344500854780171,
        0.047467705463777966,
        0.08056745954933715,
        0.08193216416563194,
        0.07165610309291172,
        0.08101873948747214,
        0.11786988243310348,
        0.061449350602296164]
```

In [21]: plt.plot(llista_scores)

Out[21]: [<matplotlib.lines.Line2D at 0x26199425780>]
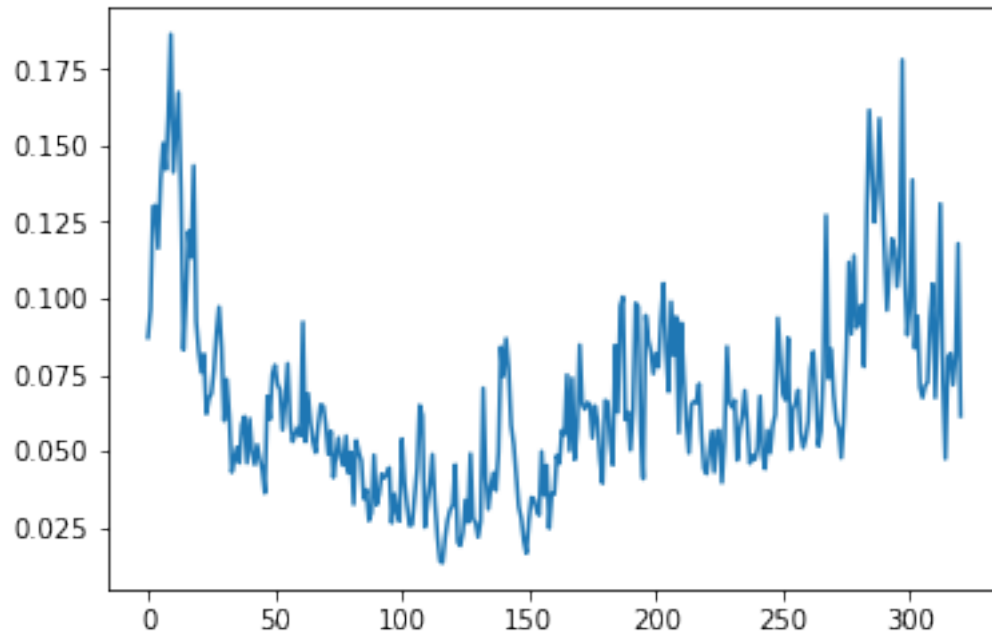
```
In [22]: prova=daily_dia.iloc[n_train:lenght]
         prova
         #len(predis)
         #lenght-n_train
         #prova['predi']=predis
         prova['predi1']=llista_p0
         prova['predi2']=llista_p1
         prova['predi3']=llista_p2
         prova['predi4']=llista_p3
         prova['predi5']=llista_p4
         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
```

```python
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','
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:4

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

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

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

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

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

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

```python
In [23]:  # 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])
```

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

```
[[11.64504545 12.11467589 11.89268709 ... 13.         13.
  13.         ]
 [12.27384894 12.366873   12.15756099 ... 13.         13.
  13.         ]
 [12.45799411 12.3942741  12.15597172 ... 13.         13.
  13.         ]
 ...
 [12.45784046 12.39012462 12.35745904 ... 13.         13.
  13.         ]
 [11.81393334 11.41212678 11.39591536 ... 13.         13.
  13.         ]
 [11.3354219  10.98999933 11.28065625 ... 13.         13.
  13.         ]]
11.645045445338024
12.114675887343425
11.89268709225046
11.956220913110037
11.693580737008611
11.733728503748226
11.934159513894262
11.943817277780877
12.20563054486036
12.212775572299648
11.878630705856795
11.941587290870086
11.77836185181462
11.601317429278238
```

```python
In [24]: llista1=list()
         llista2=list()
         llista3=list()
         llista4=list()
         llista5=list()
         llista6=list()
         llista7=list()
         llista8=list()
         llista9=list()
         llista10=list()
         llista11=list()
         llista12=list()
```

245

```
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()
```

```python
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])
```

```python
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)
```

```python
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)
```

```python
        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()
```

```python
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")
```

```python
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
```

```python
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))
```

```python
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 1 dia
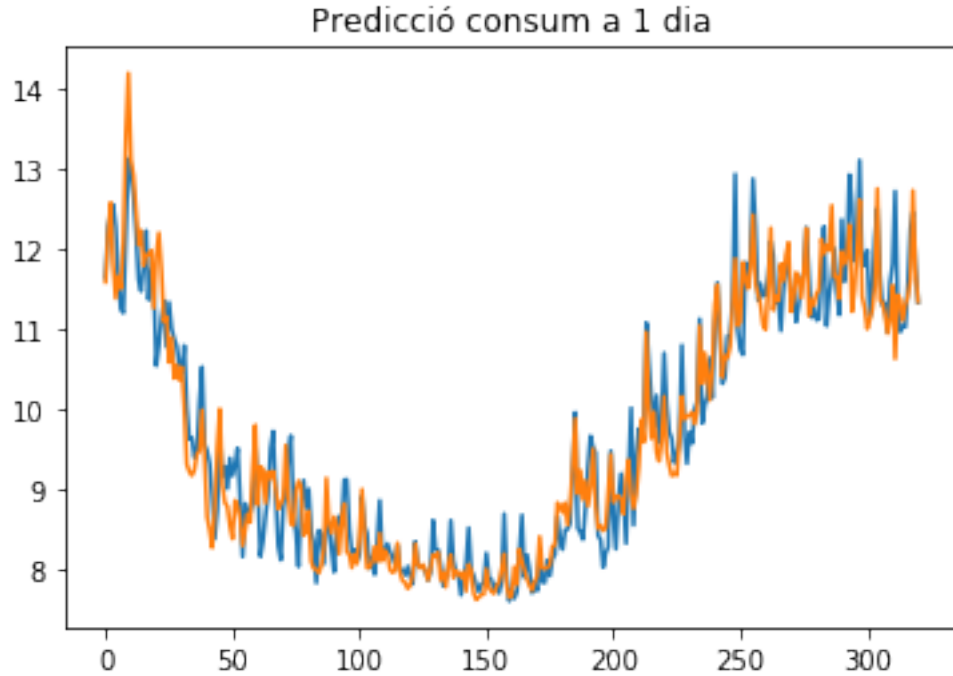
Predicció consum a 2 dies
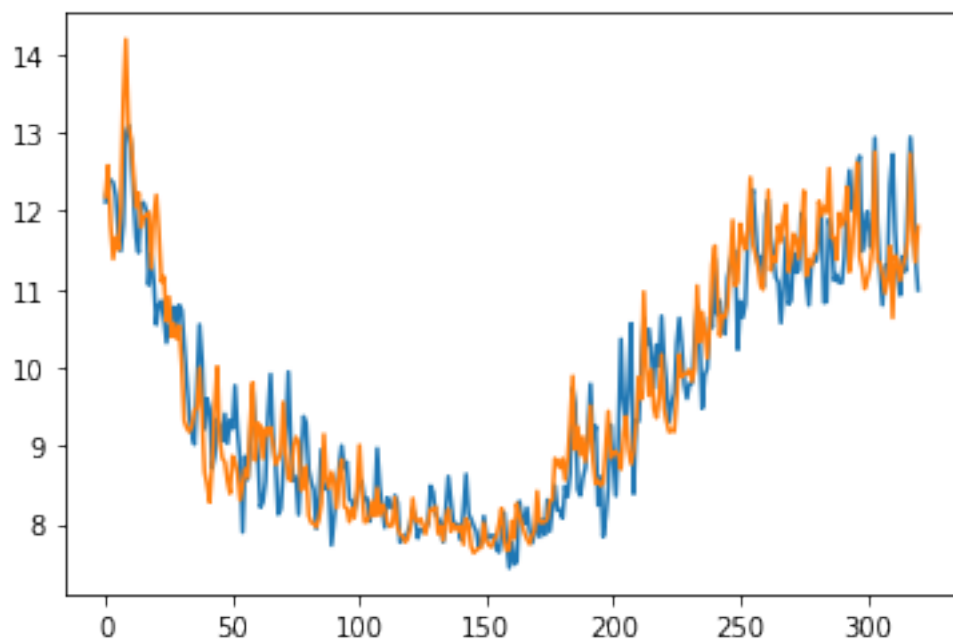
Predicció consum a 3 dies
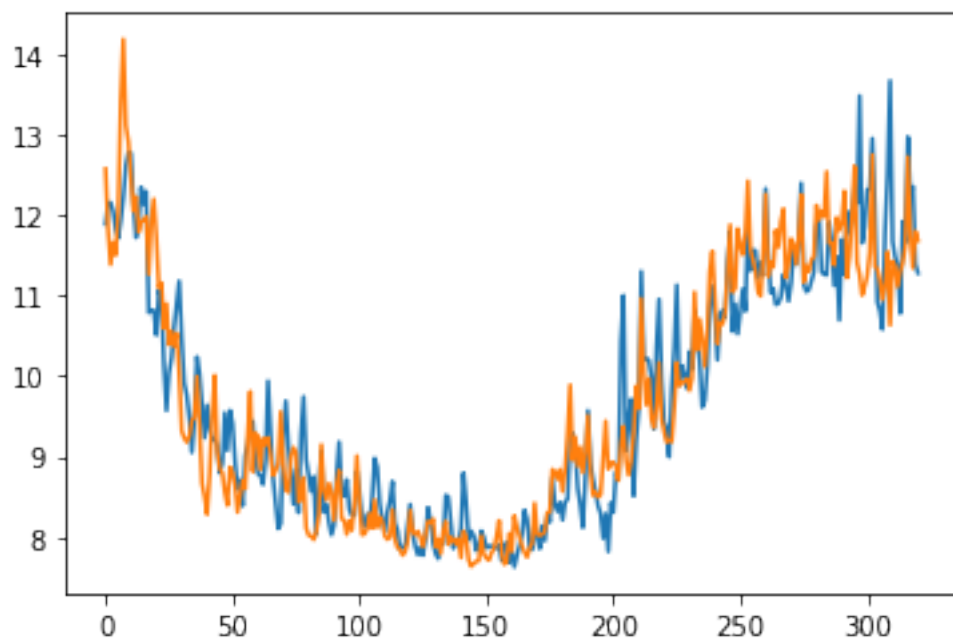
Predicció consum a 4 dies
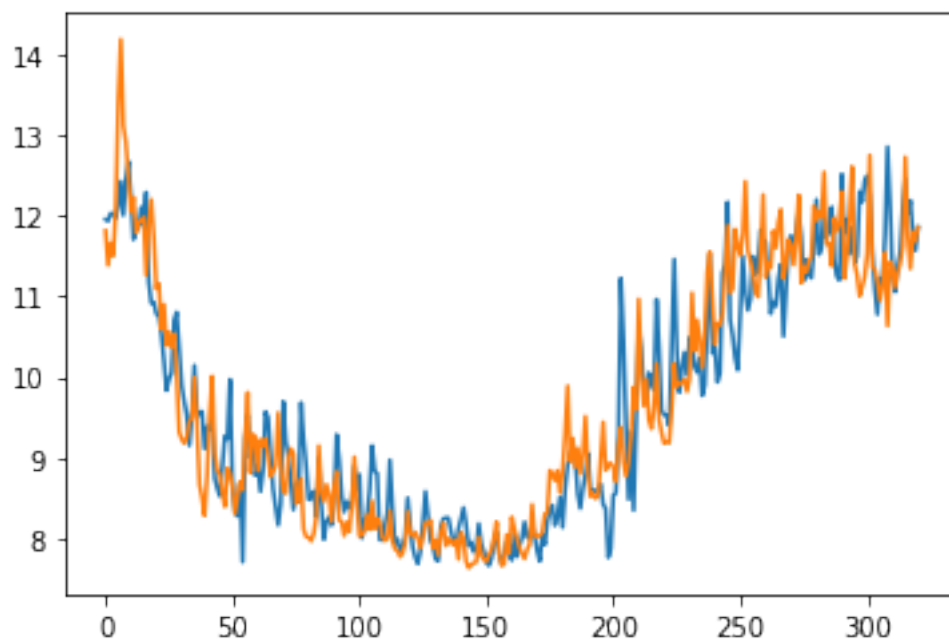
Predicció consum a 5 dies
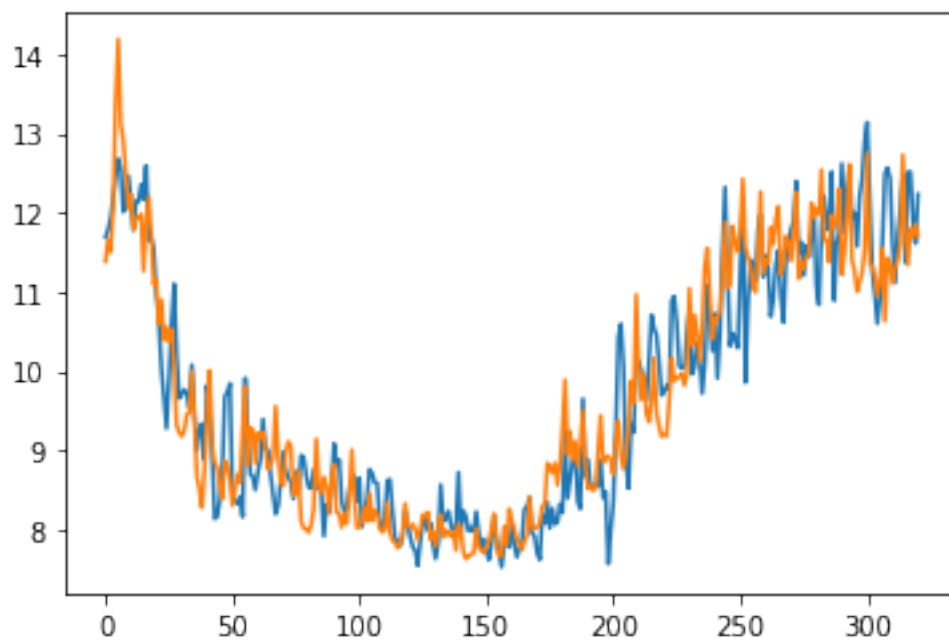
Predicció consum a 6 dies
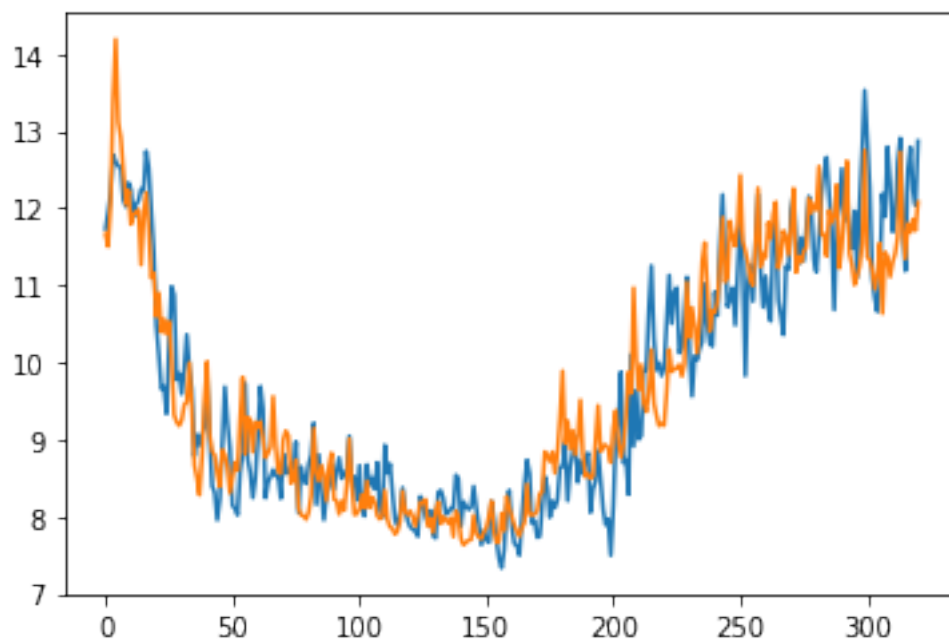
Predicció consum a 7 dies
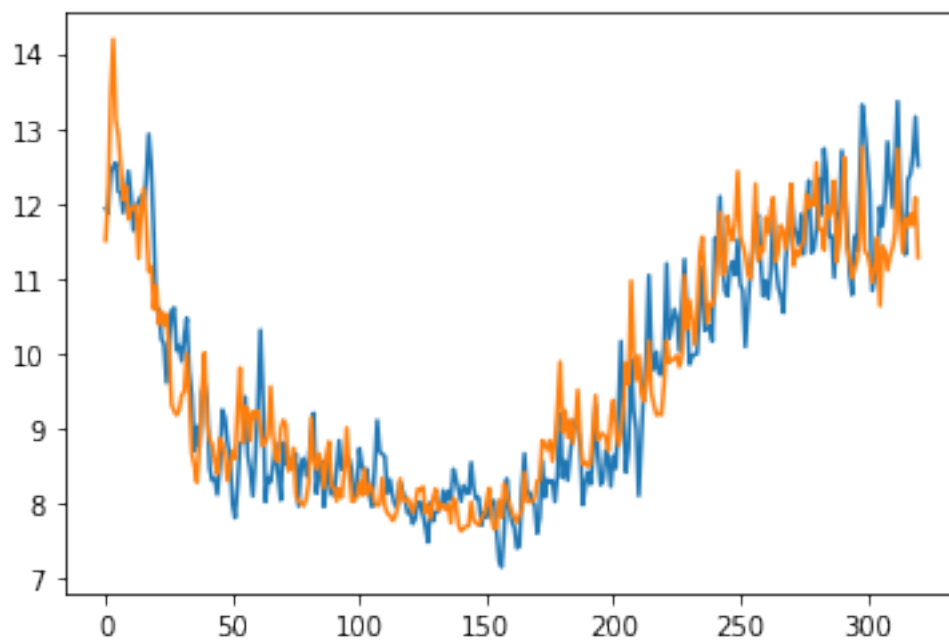
Predicció consum a 10 dies
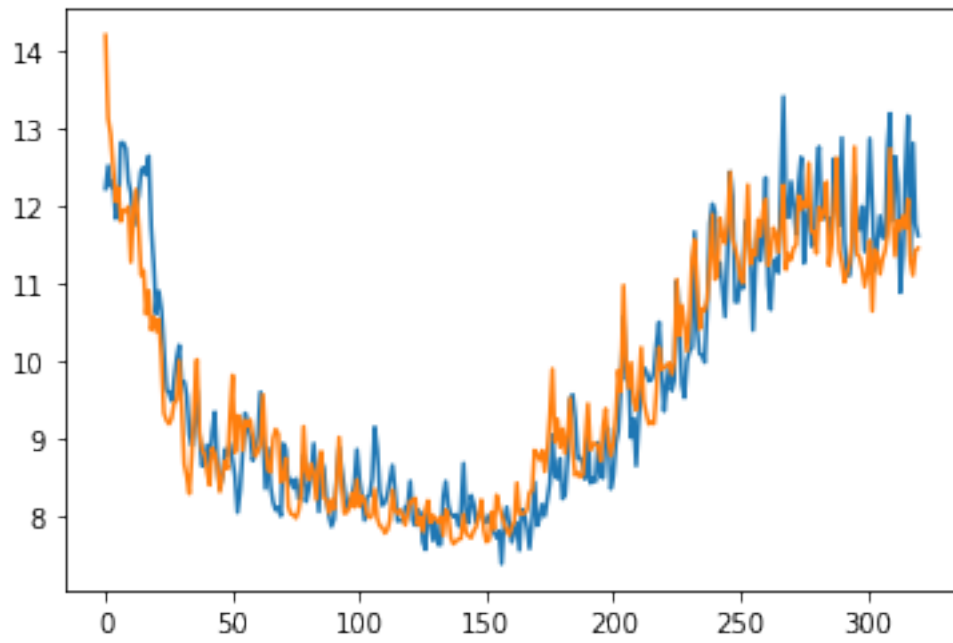
Predicció consum a 15 dies
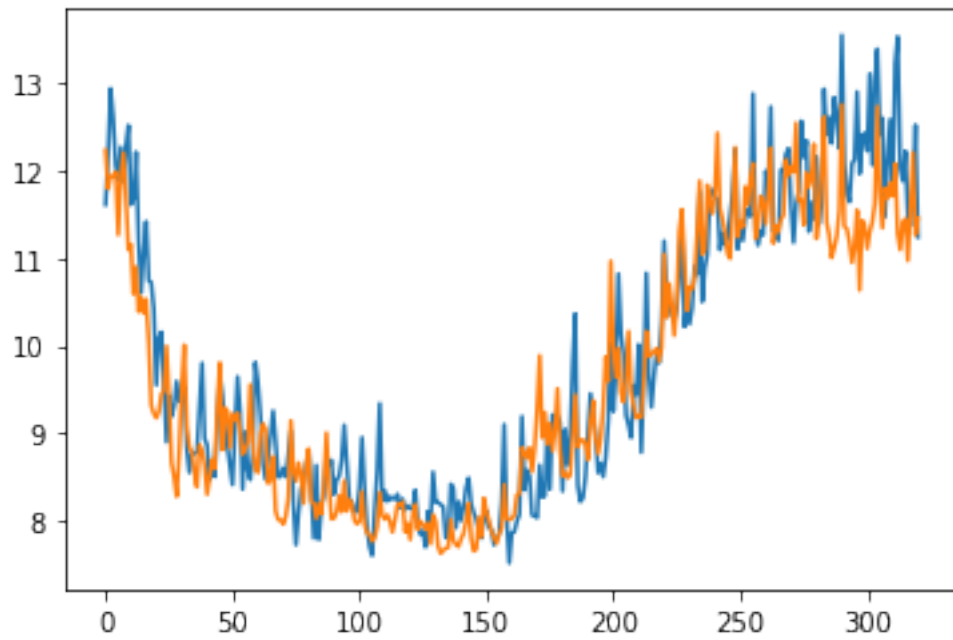
Predicció consum a 20 dies
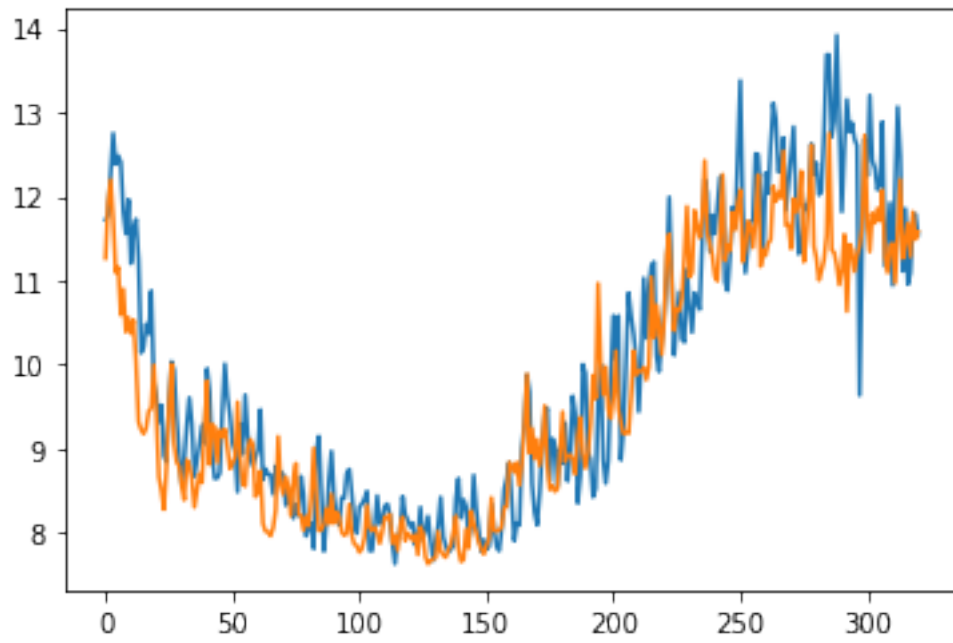
Predicció consum a 25 dies
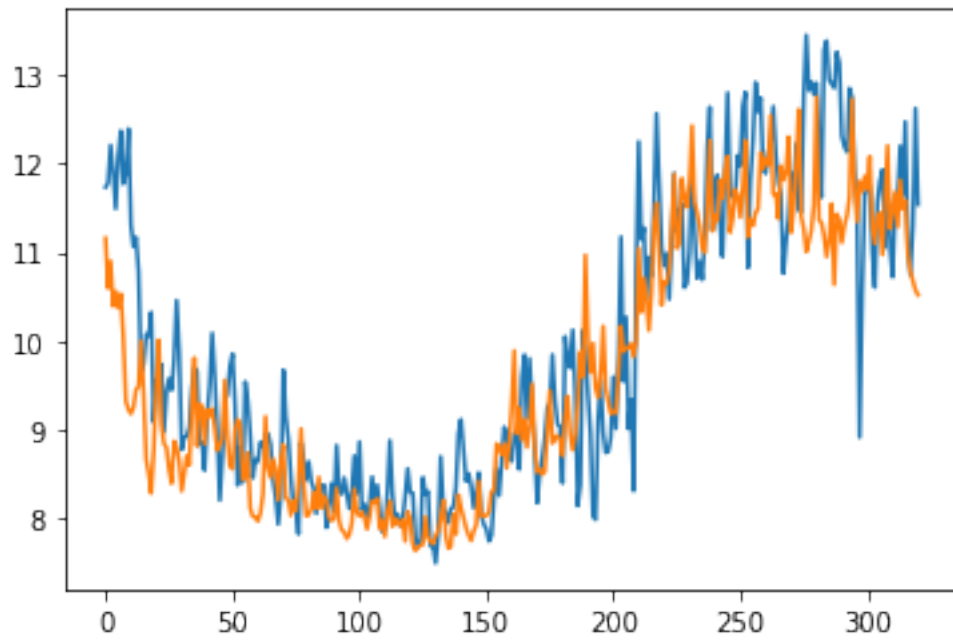
Predicció consum a 30 dies
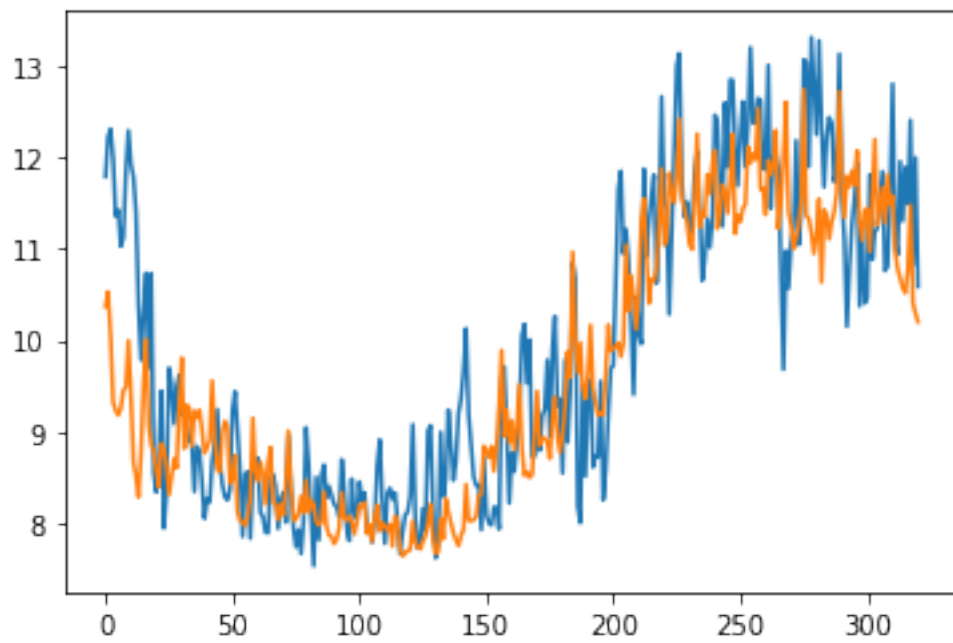
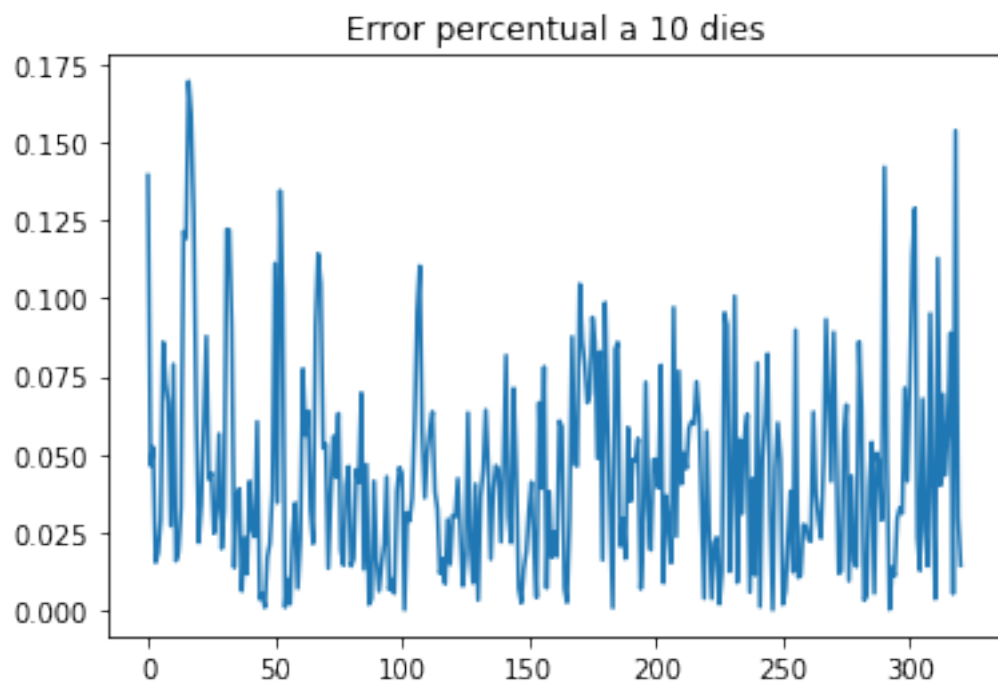Error percentual a 1 dia

Error percentual a 2 dies

Error percentual a 3 dies
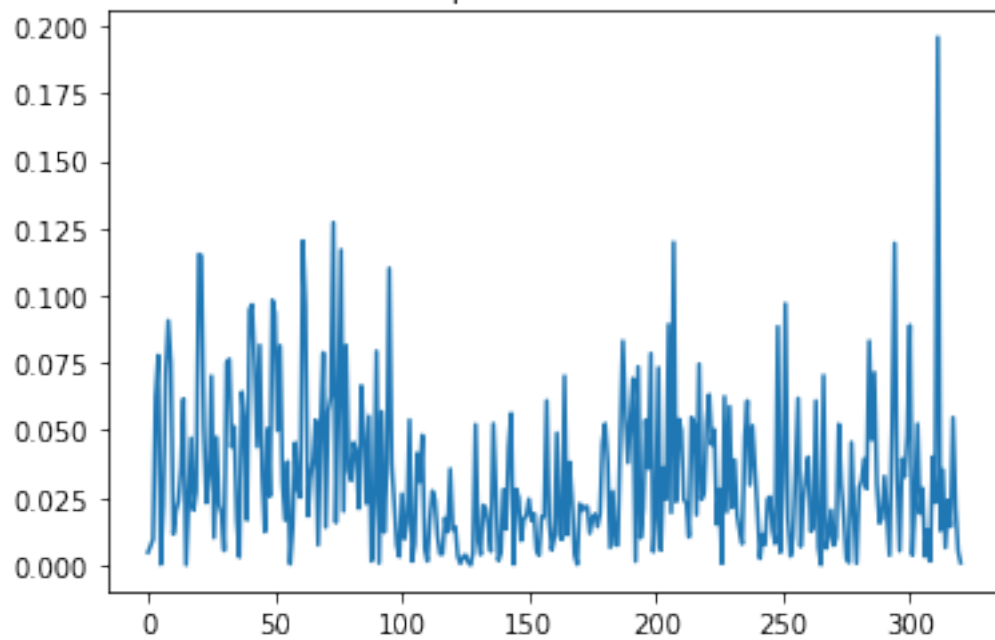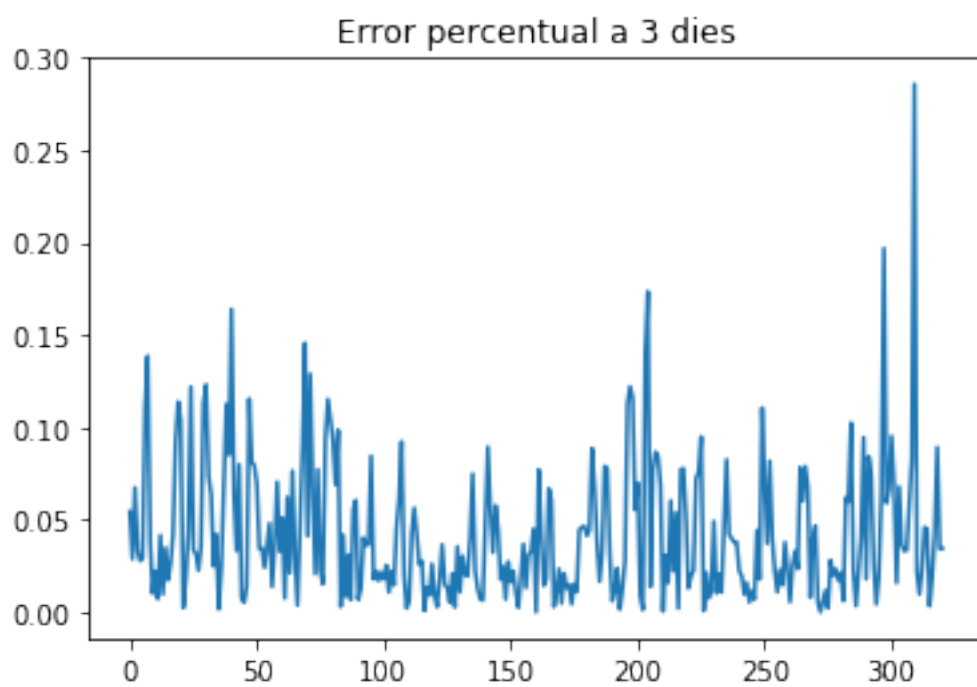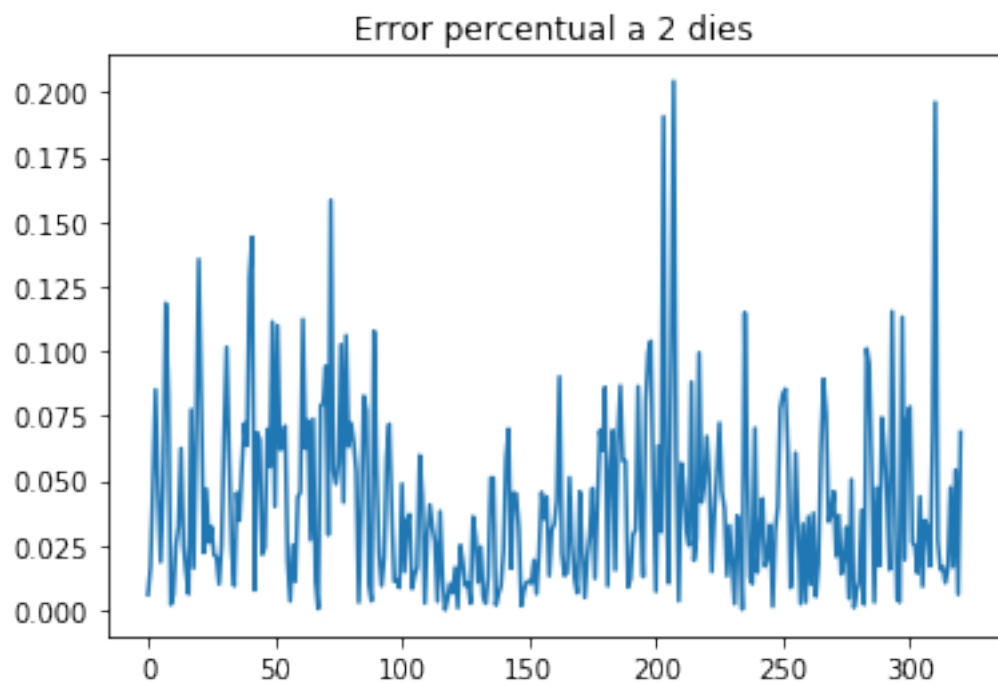
Error percentual a 4 dies

Error percentual a 5 dies

Error percentual a 6 dies

Error percentual a 7 dies

Error percentual a 10 dies

Error percentual a 15 dies

Error percentual a 20 dies

Error percentual a 25 dies
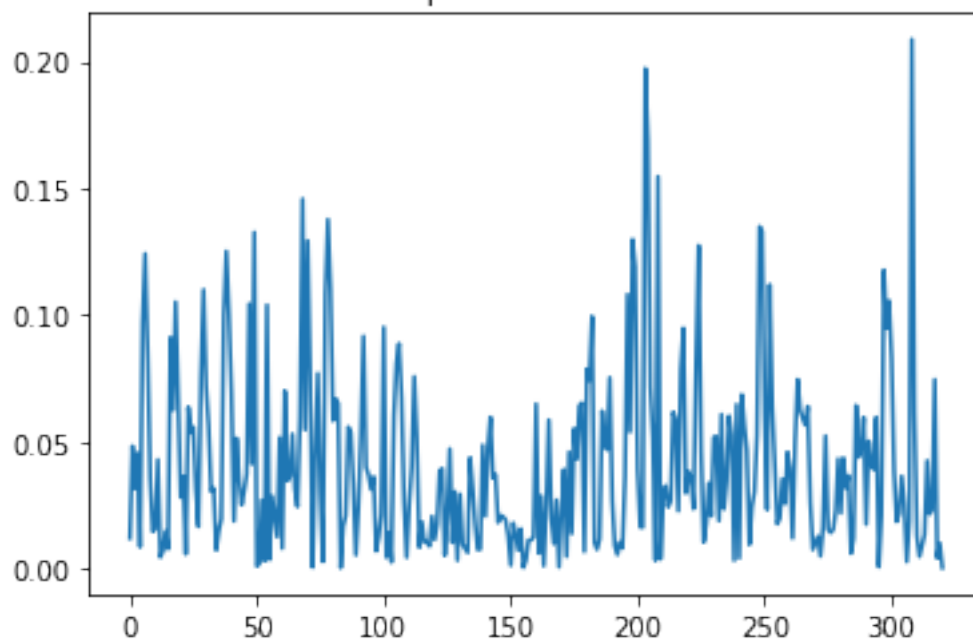
Error percentual a 30 dies
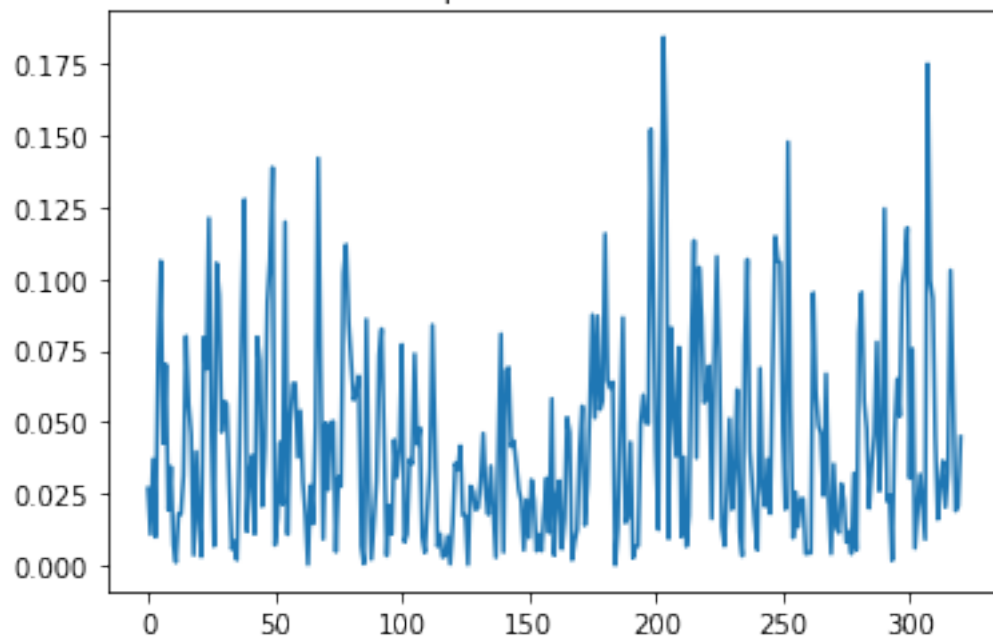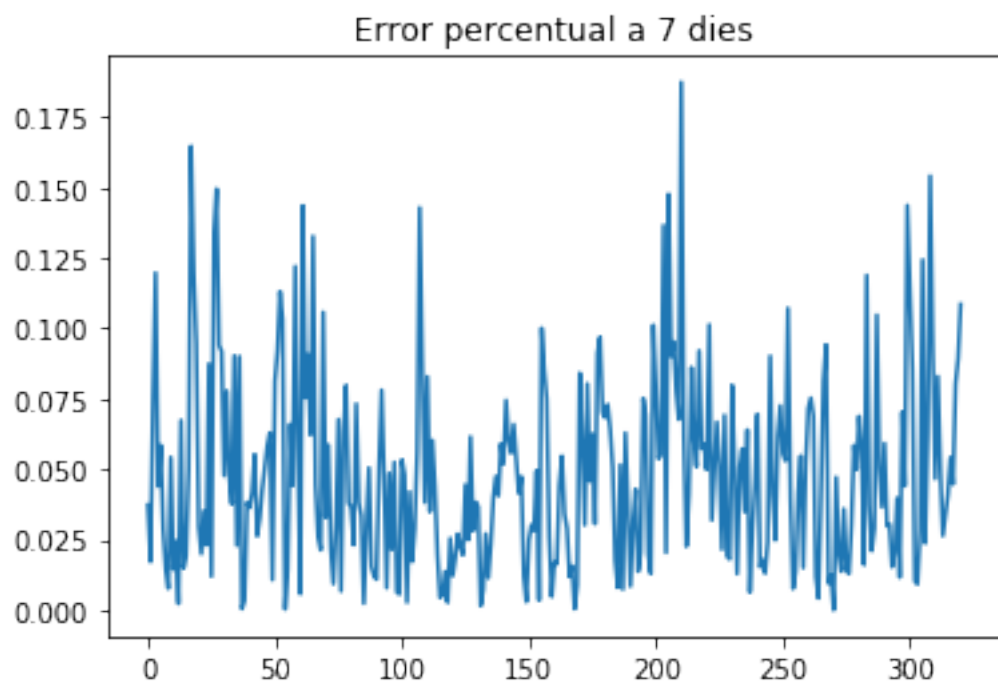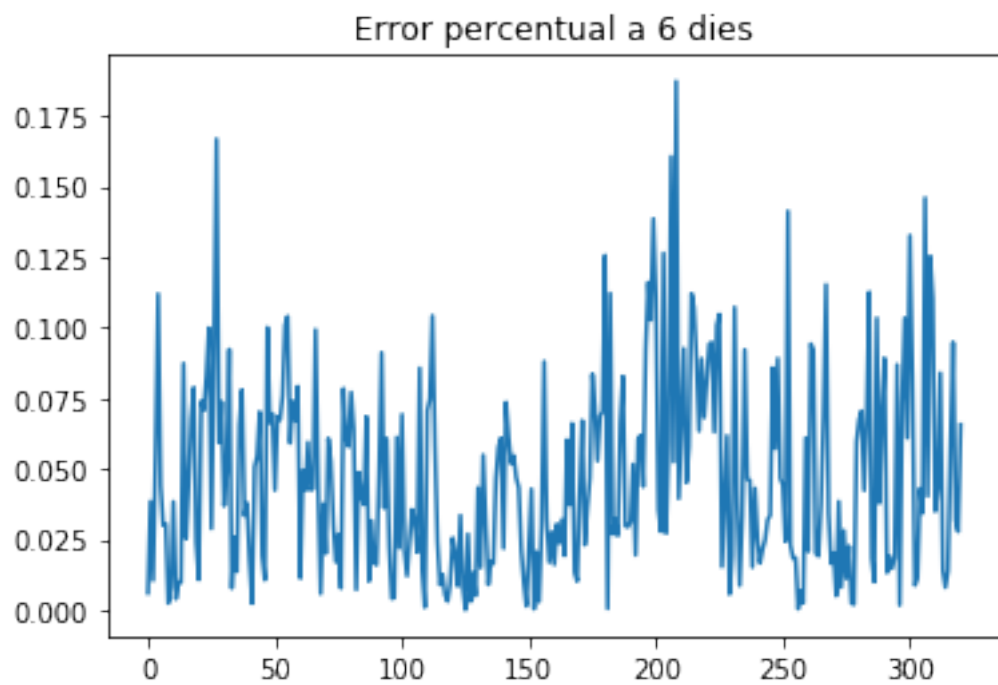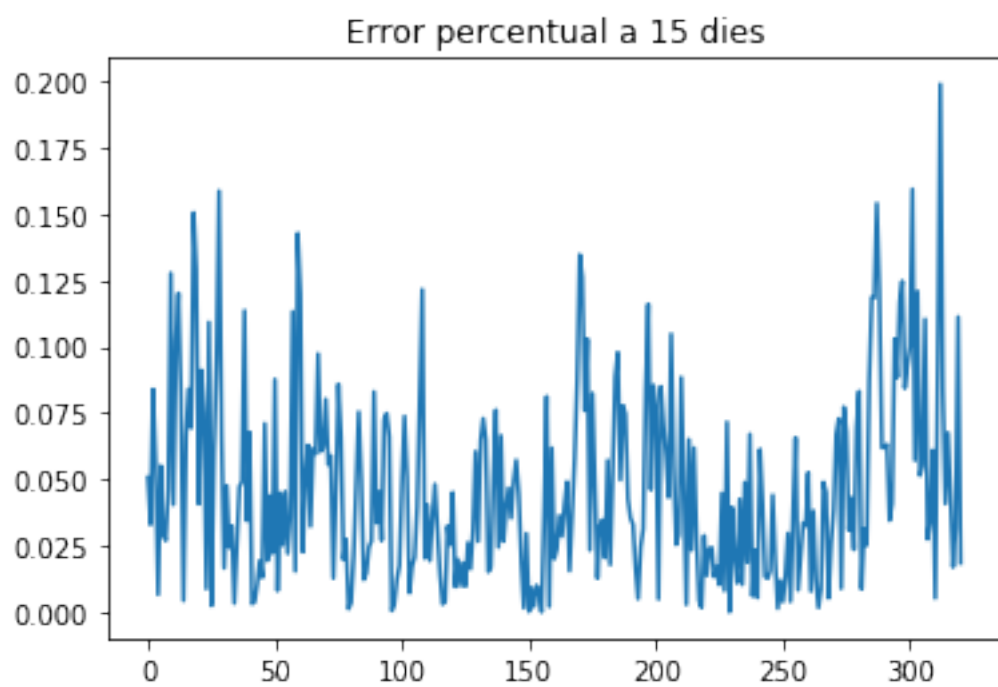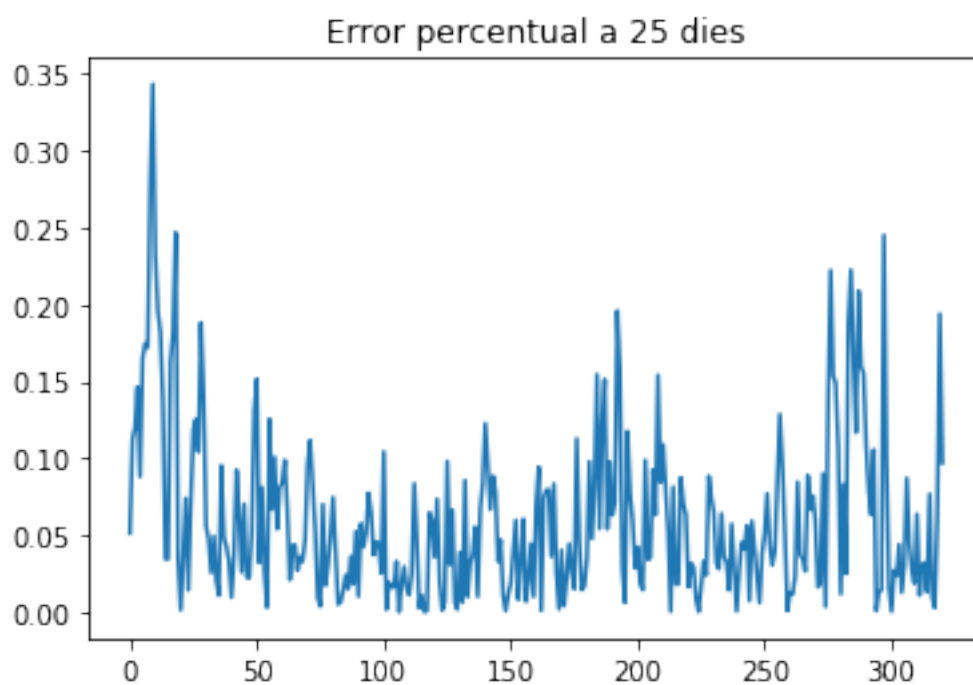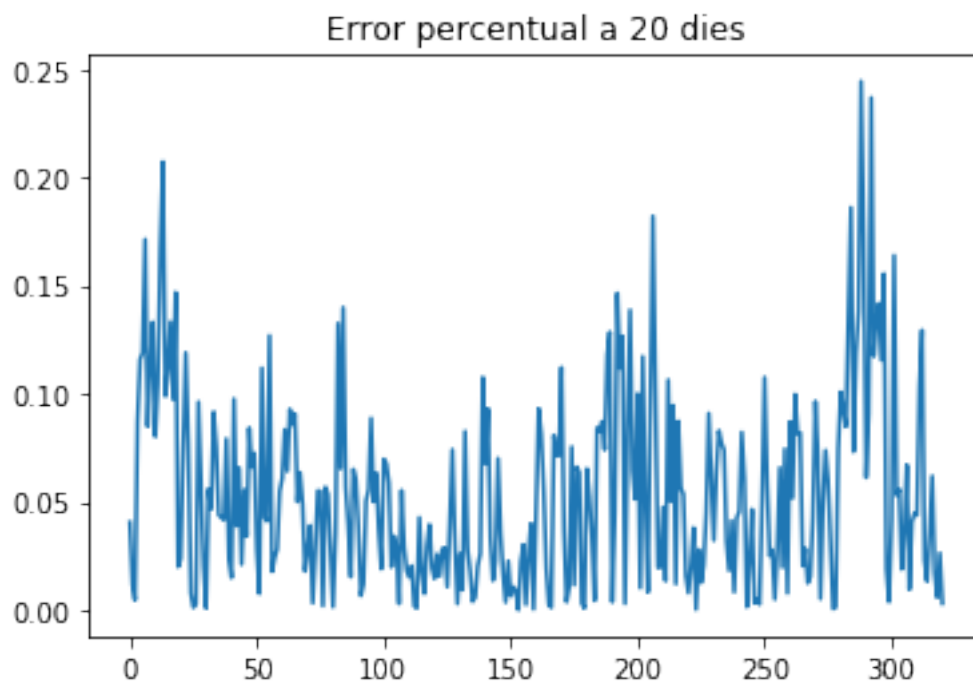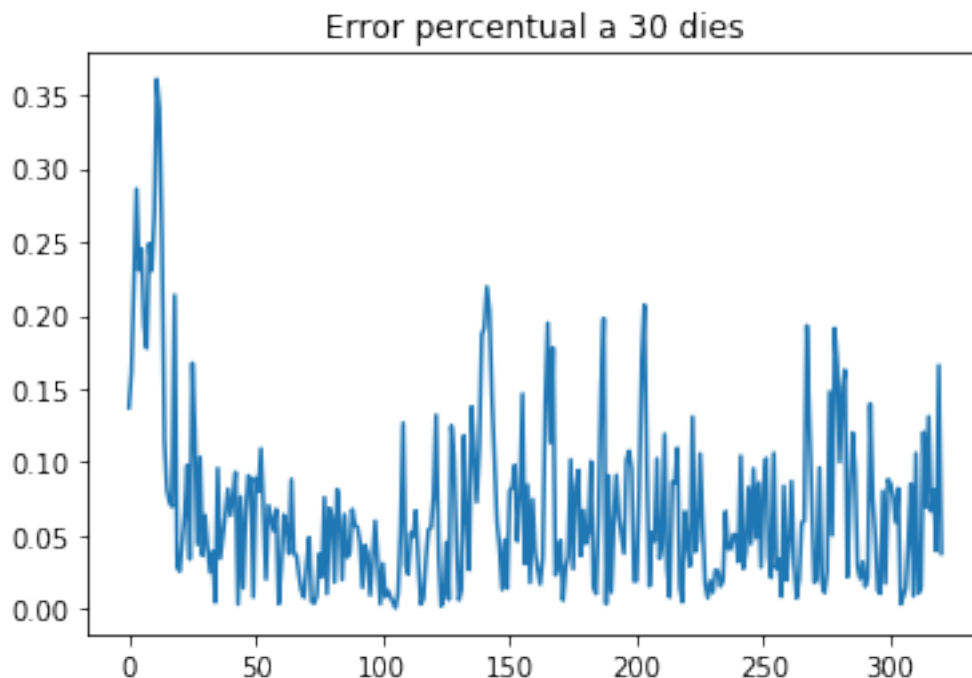
L'error mitjà a 1 dia és de 3.325398446635793 %
L'error mitjà a 2 dies és de 4.101790795521142 %
L'error mitjà a 3 dies és de 4.210171430343687 %
L'error mitjà a 4 dies és de 4.109373479128708 %
L'error mitjà a 5 dies és de 4.291637096228313 %
L'error mitjà a 6 dies és de 4.740265902585702 %
L'error mitjà a 7 dies és de 4.82505085872098 %
L'error mitjà a 8 dies és de 4.561298866865552 %
L'error mitjà a 9 dies és de 4.21540157432929 %
L'error mitjà a 10 dies és de 4.359303538439615 %
L'error mitjà a 11 dies és de 4.537997439170452 %
L'error mitjà a 12 dies és de 4.408950309076382 %
L'error mitjà a 13 dies és de 4.49343722537355 %
L'error mitjà a 14 dies és de 4.610933931604066 %
L'error mitjà a 15 dies és de 4.66599421524011 %
L'error mitjà a 16 dies és de 4.696702815930394 %
L'error mitjà a 17 dies és de 4.666288818104336 %
L'error mitjà a 18 dies és de 4.917265857972283 %
L'error mitjà a 19 dies és de 5.4098107015445285 %
L'error mitjà a 20 dies és de 5.418904616601345 %
L'error mitjà a 21 dies és de 5.222471154735223 %
L'error mitjà a 22 dies és de 5.303528685983539 %
L'error mitjà a 23 dies és de 5.2861112355653646 %
L'error mitjà a 24 dies és de 5.677370059297436 %
L'error mitjà a 25 dies és de 6.076114073370857 %

```
L'error mitjà a 26 dies és de 6.121206076843288 %
L'error mitjà a 27 dies és de 6.367682312757138 %
L'error mitjà a 28 dies és de 5.99030297453761 %
L'error mitjà a 29 dies és de 6.221411181424961 %
L'error mitjà a 30 dies és de 6.828205237881082 %


In [25]: (error_mitja1+error_mitja2+error_mitja3+error_mitja4+error_mitja5+error_mitja6+error_r

Out[25]: 4.98867936372709

In [ ]:

In [ ]:
```