

MM3

_Xarxa_walkforard_normalitzat_multivariate2_MULTISTEP60_tempm

walkforwardaugment

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

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

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

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



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In [4]: daily_dia['y+1']=daily_dia['energy_sum'].shift(-1)
daily_dia['y+2']=daily_dia['energy_sum'].shift(-2)
daily_dia['y+3']=daily_dia['energy_sum'].shift(-3)
daily_dia['y+4']=daily_dia['energy_sum'].shift(-4)
daily_dia['y+5']=daily_dia['energy_sum'].shift(-5)
daily_dia['y+6']=daily_dia['energy_sum'].shift(-6)
daily_dia['y+7']=daily_dia['energy_sum'].shift(-7)
daily_dia['y+8']=daily_dia['energy_sum'].shift(-8)
daily_dia['y+9']=daily_dia['energy_sum'].shift(-9)
daily_dia['y+10']=daily_dia['energy_sum'].shift(-10)
daily_dia['y+11']=daily_dia['energy_sum'].shift(-11)
daily_dia['y+12']=daily_dia['energy_sum'].shift(-12)
daily_dia['y+13']=daily_dia['energy_sum'].shift(-13)
daily_dia['y+14']=daily_dia['energy_sum'].shift(-14)
daily_dia['y+15']=daily_dia['energy_sum'].shift(-15)
daily_dia['y+16']=daily_dia['energy_sum'].shift(-16)
daily_dia['y+17']=daily_dia['energy_sum'].shift(-17)
daily_dia['y+18']=daily_dia['energy_sum'].shift(-18)
daily_dia['y+19']=daily_dia['energy_sum'].shift(-19)
daily_dia['y+20']=daily_dia['energy_sum'].shift(-20)
daily_dia['y+21']=daily_dia['energy_sum'].shift(-21)
daily_dia['y+22']=daily_dia['energy_sum'].shift(-22)
daily_dia['y+23']=daily_dia['energy_sum'].shift(-23)
daily_dia['y+24']=daily_dia['energy_sum'].shift(-24)
daily_dia['y+25']=daily_dia['energy_sum'].shift(-25)
daily_dia['y+26']=daily_dia['energy_sum'].shift(-26)
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daily_dia['y+27']=daily_dia['energy_sum'].shift(-27)
daily_dia['y+28']=daily_dia['energy_sum'].shift(-28)
daily_dia['y+29']=daily_dia['energy_sum'].shift(-29)
daily_dia['y+30']=daily_dia['energy_sum'].shift(-30)
daily_dia['y+31']=daily_dia['energy_sum'].shift(-31)
daily_dia['y+32']=daily_dia['energy_sum'].shift(-32)
daily_dia['y+33']=daily_dia['energy_sum'].shift(-33)
daily_dia['y+34']=daily_dia['energy_sum'].shift(-34)
daily_dia['y+35']=daily_dia['energy_sum'].shift(-35)
daily_dia['y+36']=daily_dia['energy_sum'].shift(-36)
daily_dia['y+37']=daily_dia['energy_sum'].shift(-37)
daily_dia['y+38']=daily_dia['energy_sum'].shift(-38)
daily_dia['y+39']=daily_dia['energy_sum'].shift(-39)
daily_dia['y+40']=daily_dia['energy_sum'].shift(-40)
daily_dia['y+41']=daily_dia['energy_sum'].shift(-41)
daily_dia['y+42']=daily_dia['energy_sum'].shift(-42)
daily_dia['y+43']=daily_dia['energy_sum'].shift(-43)
daily_dia['y+44']=daily_dia['energy_sum'].shift(-44)
daily_dia['y+45']=daily_dia['energy_sum'].shift(-45)
daily_dia['y+46']=daily_dia['energy_sum'].shift(-46)
daily_dia['y+47']=daily_dia['energy_sum'].shift(-47)
daily_dia['y+48']=daily_dia['energy_sum'].shift(-48)
daily_dia['y+49']=daily_dia['energy_sum'].shift(-49)
daily_dia['y+50']=daily_dia['energy_sum'].shift(-50)
daily_dia['y+51']=daily_dia['energy_sum'].shift(-51)
daily_dia['y+52']=daily_dia['energy_sum'].shift(-52)
daily_dia['y+53']=daily_dia['energy_sum'].shift(-53)
daily_dia['y+54']=daily_dia['energy_sum'].shift(-54)
daily_dia['y+55']=daily_dia['energy_sum'].shift(-55)
daily_dia['y+56']=daily_dia['energy_sum'].shift(-56)
daily_dia['y+57']=daily_dia['energy_sum'].shift(-57)
daily_dia['y+58']=daily_dia['energy_sum'].shift(-58)
daily_dia['y+59']=daily_dia['energy_sum'].shift(-59)
daily_dia['y+60']=daily_dia['energy_sum'].shift(-60)

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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)

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daily_dia['t-13']=daily_dia['energy_sum'].shift(13)
daily_dia['t-14']=daily_dia['energy_sum'].shift(14)

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

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

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

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

```

daily_dia

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Out[4]:

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	index	date	energy_sum	apparentTemperatureMax	\
0	735	2011-11-23	6.952692	10.36	
1	736	2011-11-24	8.536480	12.93	
2	682	2011-11-25	9.499781	13.03	
3	713	2011-11-26	10.267707	12.96	
4	609	2011-11-27	10.850805	13.54	
5	641	2011-11-28	9.103382	12.58	
6	265	2011-11-29	9.274873	13.47	
7	571	2011-11-30	8.813513	11.87	
8	199	2011-12-01	9.227707	12.15	
9	338	2011-12-02	10.145910	5.33	
10	131	2011-12-03	10.780273	11.42	
11	100	2011-12-04	12.163127	6.66	
12	176	2011-12-05	10.609714	3.13	
13	203	2011-12-06	11.673417	3.77	
14	240	2011-12-07	10.889362	5.14	
15	299	2011-12-08	11.525150	12.89	
16	294	2011-12-09	11.759837	3.99	
17	455	2011-12-10	12.633801	3.14	
18	215	2011-12-11	13.749174	5.72	
19	115	2011-12-12	11.951958	5.94	
20	22	2011-12-13	11.957446	12.08	
21	45	2011-12-14	12.392776	2.88	
22	59	2011-12-15	12.307079	4.38	
23	11	2011-12-16	13.376080	0.99	
24	228	2011-12-17	13.511968	1.72	
25	478	2011-12-18	14.732271	1.98	
26	412	2011-12-19	13.774471	4.02	
27	433	2011-12-20	12.709106	4.98	
28	524	2011-12-21	12.148570	12.14	

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

	apparentTemperatureMin	humidity	weekday	y+1	y+2 \
0	2.18	0.93	3	8.536480	9.499781
1	7.01	0.89	4	9.499781	10.267707
2	4.84	0.79	5	10.267707	10.850805
3	4.69	0.81	6	10.850805	9.103382
4	2.94	0.72	7	9.103382	9.274873
5	1.31	0.86	1	9.274873	8.813513
6	3.39	0.82	2	8.813513	9.227707
7	3.34	0.78	3	9.227707	10.145910
8	5.29	0.82	4	10.145910	10.780273
9	0.46	0.87	5	10.780273	12.163127
10	4.71	0.79	6	12.163127	10.609714
11	1.03	0.82	7	10.609714	11.673417
12	-1.69	0.77	1	11.673417	10.889362
13	-1.61	0.83	2	10.889362	11.525150

14	0.94	0.68	3	11.525150	11.759837
15	0.63	0.81	4	11.759837	12.633801
16	-1.42	0.71	5	12.633801	13.749174
17	-3.42	0.81	6	13.749174	11.951958
18	0.11	0.88	7	11.951958	11.957446
19	-0.64	0.84	1	11.957446	12.392776
20	0.22	0.75	2	12.392776	12.307079
21	0.78	0.79	3	12.307079	13.376080
22	1.07	0.77	4	13.376080	13.511968
23	-2.65	0.88	5	13.511968	14.732271
24	-3.56	0.86	6	14.732271	13.774471
25	-4.12	0.84	7	13.774471	12.709106
26	-3.67	0.94	1	12.709106	12.148570
27	1.68	0.81	2	12.148570	11.839403
28	3.84	0.94	3	11.839403	12.254989
29	5.37	0.87	4	12.254989	13.065317
..
800	0.18	0.90	3	11.685169	11.857957
801	0.61	0.91	4	11.857957	11.710582
802	0.29	0.91	5	11.710582	12.078164
803	1.10	0.76	6	12.078164	11.280011
804	3.21	0.72	7	11.280011	11.095584
805	1.96	0.79	1	11.095584	11.415105
806	1.12	0.75	2	11.415105	11.445403
807	1.03	0.77	3	11.445403	10.972318
808	1.96	0.82	4	10.972318	11.569300
809	-0.86	0.79	5	11.569300	12.202967
810	2.19	0.77	6	12.202967	11.264175
811	1.38	0.66	7	11.264175	11.452649
812	0.89	0.84	1	11.452649	11.679099
813	-0.57	0.76	2	11.679099	11.285737
814	-1.20	0.75	3	11.285737	11.816914
815	0.05	0.68	4	11.816914	11.490470
816	0.45	0.81	5	11.490470	11.582159
817	1.77	0.69	6	11.582159	10.979566
818	-1.03	0.76	7	10.979566	10.781898
819	2.84	0.83	1	10.781898	10.674624
820	3.83	0.87	2	10.674624	10.573835
821	2.65	0.87	3	10.573835	10.518126
822	3.95	0.84	4	10.518126	10.776242
823	0.19	0.72	5	10.776242	11.480411
824	1.59	0.71	6	11.480411	10.411403
825	5.53	0.76	7	10.411403	10.294997
826	5.52	0.74	1	10.294997	10.202945
827	3.89	0.78	2	10.202945	10.356350
828	1.67	0.73	3	10.356350	NaN
829	1.41	0.74	4	NaN	NaN

	y+3	...	weekday(t-5)	weekday(t-6)	weekday(t-7)	weekday(t-8)	\
0	10.267707	...	NaN	NaN	NaN	NaN	
1	10.850805	...	NaN	NaN	NaN	NaN	
2	9.103382	...	NaN	NaN	NaN	NaN	
3	9.274873	...	NaN	NaN	NaN	NaN	
4	8.813513	...	NaN	NaN	NaN	NaN	
5	9.227707	...	3.0	NaN	NaN	NaN	
6	10.145910	...	4.0	3.0	NaN	NaN	
7	10.780273	...	5.0	4.0	3.0	NaN	
8	12.163127	...	6.0	5.0	4.0	3.0	
9	10.609714	...	7.0	6.0	5.0	4.0	
10	11.673417	...	1.0	7.0	6.0	5.0	
11	10.889362	...	2.0	1.0	7.0	6.0	
12	11.525150	...	3.0	2.0	1.0	7.0	
13	11.759837	...	4.0	3.0	2.0	1.0	
14	12.633801	...	5.0	4.0	3.0	2.0	
15	13.749174	...	6.0	5.0	4.0	3.0	
16	11.951958	...	7.0	6.0	5.0	4.0	
17	11.957446	...	1.0	7.0	6.0	5.0	
18	12.392776	...	2.0	1.0	7.0	6.0	
19	12.307079	...	3.0	2.0	1.0	7.0	
20	13.376080	...	4.0	3.0	2.0	1.0	
21	13.511968	...	5.0	4.0	3.0	2.0	
22	14.732271	...	6.0	5.0	4.0	3.0	
23	13.774471	...	7.0	6.0	5.0	4.0	
24	12.709106	...	1.0	7.0	6.0	5.0	
25	12.148570	...	2.0	1.0	7.0	6.0	
26	11.839403	...	3.0	2.0	1.0	7.0	
27	12.254989	...	4.0	3.0	2.0	1.0	
28	13.065317	...	5.0	4.0	3.0	2.0	
29	12.949429	...	6.0	5.0	4.0	3.0	
..	
800	11.710582	...	5.0	4.0	3.0	2.0	
801	12.078164	...	6.0	5.0	4.0	3.0	
802	11.280011	...	7.0	6.0	5.0	4.0	
803	11.095584	...	1.0	7.0	6.0	5.0	
804	11.415105	...	2.0	1.0	7.0	6.0	
805	11.445403	...	3.0	2.0	1.0	7.0	
806	10.972318	...	4.0	3.0	2.0	1.0	
807	11.569300	...	5.0	4.0	3.0	2.0	
808	12.202967	...	6.0	5.0	4.0	3.0	
809	11.264175	...	7.0	6.0	5.0	4.0	
810	11.452649	...	1.0	7.0	6.0	5.0	
811	11.679099	...	2.0	1.0	7.0	6.0	
812	11.285737	...	3.0	2.0	1.0	7.0	
813	11.816914	...	4.0	3.0	2.0	1.0	
814	11.490470	...	5.0	4.0	3.0	2.0	
815	11.582159	...	6.0	5.0	4.0	3.0	

816	10.979566	...	7.0	6.0	5.0	4.0
817	10.781898	...	1.0	7.0	6.0	5.0
818	10.674624	...	2.0	1.0	7.0	6.0
819	10.573835	...	3.0	2.0	1.0	7.0
820	10.518126	...	4.0	3.0	2.0	1.0
821	10.776242	...	5.0	4.0	3.0	2.0
822	11.480411	...	6.0	5.0	4.0	3.0
823	10.411403	...	7.0	6.0	5.0	4.0
824	10.294997	...	1.0	7.0	6.0	5.0
825	10.202945	...	2.0	1.0	7.0	6.0
826	10.356350	...	3.0	2.0	1.0	7.0
827	NaN	...	4.0	3.0	2.0	1.0
828	NaN	...	5.0	4.0	3.0	2.0
829	NaN	...	6.0	5.0	4.0	3.0

	weekday(t-9)	weekday(t-10)	weekday(t-11)	weekday(t-12)	weekday(t-13)	\
0	NaN	NaN	NaN	NaN	NaN	NaN
1	NaN	NaN	NaN	NaN	NaN	NaN
2	NaN	NaN	NaN	NaN	NaN	NaN
3	NaN	NaN	NaN	NaN	NaN	NaN
4	NaN	NaN	NaN	NaN	NaN	NaN
5	NaN	NaN	NaN	NaN	NaN	NaN
6	NaN	NaN	NaN	NaN	NaN	NaN
7	NaN	NaN	NaN	NaN	NaN	NaN
8	NaN	NaN	NaN	NaN	NaN	NaN
9	3.0	NaN	NaN	NaN	NaN	NaN
10	4.0	3.0	NaN	NaN	NaN	NaN
11	5.0	4.0	3.0	NaN	NaN	NaN
12	6.0	5.0	4.0	3.0	NaN	NaN
13	7.0	6.0	5.0	4.0	3.0	NaN
14	1.0	7.0	6.0	5.0	4.0	3.0
15	2.0	1.0	7.0	6.0	5.0	4.0
16	3.0	2.0	1.0	7.0	6.0	5.0
17	4.0	3.0	2.0	1.0	7.0	6.0
18	5.0	4.0	3.0	2.0	1.0	7.0
19	6.0	5.0	4.0	3.0	2.0	1.0
20	7.0	6.0	5.0	4.0	3.0	2.0
21	1.0	7.0	6.0	5.0	4.0	3.0
22	2.0	1.0	7.0	6.0	5.0	4.0
23	3.0	2.0	1.0	7.0	6.0	5.0
24	4.0	3.0	2.0	1.0	7.0	6.0
25	5.0	4.0	3.0	2.0	1.0	7.0
26	6.0	5.0	4.0	3.0	2.0	1.0
27	7.0	6.0	5.0	4.0	3.0	2.0
28	1.0	7.0	6.0	5.0	4.0	3.0
29	2.0	1.0	7.0	6.0	5.0	4.0
..
800	1.0	7.0	6.0	5.0	4.0	3.0

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

	weekday(t-14)
0	NaN
1	NaN
2	NaN
3	NaN
4	NaN
5	NaN
6	NaN
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8	NaN
9	NaN
10	NaN
11	NaN
12	NaN
13	NaN
14	3.0
15	4.0
16	5.0

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

[830 rows x 137 columns]

In [5]: *#Ens quedem amb energies i temperatures*

```
#No agafem apparent temperature max ja que quan fem la predicció representa que no ho
daily_dia=daily_dia.drop(['index','date','apparentTemperatureMax','apparentTemperaturel
daily_dia.head(5)
```

```
Out [5]:
```

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

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

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

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

[5 rows x 131 columns]

```
In [6]: #Eliminem les 14 primeres files ja que contenen NaN (valors buits)
```

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

```
Out [6]:
```

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

	y+6	y+7	y+8	y+9	...	weekday(t-5)	\
14	11.957446	12.392776	12.307079	13.376080	...	5.0	

15	12.392776	12.307079	13.376080	13.511968	...	6.0
16	12.307079	13.376080	13.511968	14.732271	...	7.0
17	13.376080	13.511968	14.732271	13.774471	...	1.0
18	13.511968	14.732271	13.774471	12.709106	...	2.0

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

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

[5 rows x 131 columns]

In [7]: `daily_dia=daily_dia.drop([829,828,827,826,825,824,823, 822,821,820,819,818,817,816,815
daily_dia.tail(5)`

Out [7]:

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

	y+6	y+7	y+8	y+9	...	weekday(t-5)	\
765	11.913917	12.302586	11.223347	11.489046	...	5.0	
766	12.302586	11.223347	11.489046	11.995096	...	6.0	
767	11.223347	11.489046	11.995096	12.611274	...	7.0	
768	11.489046	11.995096	12.611274	11.408516	...	1.0	
769	11.995096	12.611274	11.408516	11.268234	...	2.0	

	weekday(t-6)	weekday(t-7)	weekday(t-8)	weekday(t-9)	weekday(t-10)	\
765	4.0	3.0	2.0	1.0	7.0	
766	5.0	4.0	3.0	2.0	1.0	
767	6.0	5.0	4.0	3.0	2.0	
768	7.0	6.0	5.0	4.0	3.0	
769	1.0	7.0	6.0	5.0	4.0	

	weekday(t-11)	weekday(t-12)	weekday(t-13)	weekday(t-14)	
765	6.0	5.0	4.0	3.0	
766	7.0	6.0	5.0	4.0	

767	1.0	7.0	6.0	5.0
768	2.0	1.0	7.0	6.0
769	3.0	2.0	1.0	7.0

[5 rows x 131 columns]

```
In [10]: len(daily_dia)
```

```
Out[10]: 809
```

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

```
In [9]: #Seleccionem dades per test i train
y_daily=daily_dia_norm[:,0:60]
X_daily=daily_dia_norm[:,61:131]
```

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

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

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

```
In [10]: # definim model
import tensorflow as tf
model =Sequential()
model.add(LSTM(50, activation='relu', input_shape=(14, 5)))
model.add(Dense(60))
model.compile(optimizer='adam', loss='mse', metrics=['accuracy'])
```

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

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

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

llista_evaluate=list()
```

```

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

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

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

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

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

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

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

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

    sumScores=sumScores+testScore

```

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

In [12]: *#Dividim la suma de scores de test entre el nombre de prediccions per obtenir la mitjana*
sumScores/(lenght-n_train)

Out[12]: 0.0708779606370579

In [13]: *#Fem llista amb les prediccions*
llista_p=list()
for i in range(len(llista_prediccions)):
 llista_p.append(llista_prediccions[i].tolist())

llista_p

```
Out[13]: [[0.5745431780815125,  
           0.588162362575531,  
           0.5799089074134827,  
           0.5428268909454346,  
           0.5310452580451965,  
           0.508085310459137,  
           0.50385981798172,  
           0.5403192043304443,  
           0.5442112684249878,  
           0.5449181199073792,  
           0.5201001763343811,  
           0.526941180229187,  
           0.551180899143219,  
           0.505264163017273,  
           0.5202043056488037,  
           0.5367024540901184,  
           0.5723879337310791,  
           0.5322167277336121,  
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           0.5071931481361389,  
           0.5535134673118591,  
           0.5503014922142029,  
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           0.5341244339942932,  
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```

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```

```

In [14]: #Fem llista amb la predicció de només el dia següent
        llista_p0=list()
        for i in range(len(llista_p)):
            llista_p0.append(llista_p[i][0][0])

        #Fem llista amb la predicció de 2 dies
        llista_p1=list()
        for i in range(len(llista_p)):

```

```

        llista_p1.append(llista_p[i][0][1])

#Altres dies

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

#Altres dies

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

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

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

llista_p35=list()
for i in range(len(llista_p)):

```

```

        llista_p35.append(llista_p[i][0][35])

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

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

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

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

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

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

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

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

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

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

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

llista_p47=list()
for i in range(len(llista_p)):

```



```

        llista_p47.append(llista_p[i][0][47])

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

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

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

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

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

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

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

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

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

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

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

llista_p59=list()
for i in range(len(llista_p)):

```

```
llista_p59.append(llista_p[i][0][59])
```

```
In [15]: score0=math.sqrt(mean_squared_error(y_daily[n_train:lenght,0], llista_p0))
print("Error predicció 1 dia següent: {}".format(score0))
score1=math.sqrt(mean_squared_error(y_daily[n_train:lenght,1], llista_p1))
print("Error predicció 2 dia següent: {}".format(score1))
score2=math.sqrt(mean_squared_error(y_daily[n_train:lenght,2], llista_p2))
print("Error predicció 3 dia següent: {}".format(score2))
score3=math.sqrt(mean_squared_error(y_daily[n_train:lenght,3], llista_p3))
print("Error predicció 4 dia següent: {}".format(score3))
score4=math.sqrt(mean_squared_error(y_daily[n_train:lenght,4], llista_p4))
print("Error predicció 5 dia següent: {}".format(score4))
score5=math.sqrt(mean_squared_error(y_daily[n_train:lenght,5], llista_p5))
print("Error predicció 6 dia següent: {}".format(score5))
score6=math.sqrt(mean_squared_error(y_daily[n_train:lenght,6], llista_p6))
print("Error predicció 7 dia següent: {}".format(score6))
score7=math.sqrt(mean_squared_error(y_daily[n_train:lenght,7], llista_p7))
print("Error predicció 8 dia següent: {}".format(score7))
score8=math.sqrt(mean_squared_error(y_daily[n_train:lenght,8], llista_p8))
print("Error predicció 9 dia següent: {}".format(score8))
score9=math.sqrt(mean_squared_error(y_daily[n_train:lenght,9], llista_p9))
print("Error predicció 10 dia següent: {}".format(score9))
score10=math.sqrt(mean_squared_error(y_daily[n_train:lenght,10], llista_p10))
print("Error predicció 11 dia següent: {}".format(score10))
score11=math.sqrt(mean_squared_error(y_daily[n_train:lenght,11], llista_p11))
print("Error predicció 12 dia següent: {}".format(score11))
score12=math.sqrt(mean_squared_error(y_daily[n_train:lenght,12], llista_p12))
print("Error predicció 13 dia següent: {}".format(score12))
score13=math.sqrt(mean_squared_error(y_daily[n_train:lenght,13], llista_p13))
print("Error predicció 14 dia següent: {}".format(score13))
score14=math.sqrt(mean_squared_error(y_daily[n_train:lenght,14], llista_p14))
print("Error predicció 15 dia següent: {}".format(score14))
score15=math.sqrt(mean_squared_error(y_daily[n_train:lenght,15], llista_p15))
print("Error predicció 16 dia següent: {}".format(score15))
score16=math.sqrt(mean_squared_error(y_daily[n_train:lenght,16], llista_p16))
print("Error predicció 17 dia següent: {}".format(score16))
score17=math.sqrt(mean_squared_error(y_daily[n_train:lenght,17], llista_p17))
print("Error predicció 18 dia següent: {}".format(score17))
score18=math.sqrt(mean_squared_error(y_daily[n_train:lenght,18], llista_p18))
print("Error predicció 19 dia següent: {}".format(score18))
score19=math.sqrt(mean_squared_error(y_daily[n_train:lenght,19], llista_p19))
print("Error predicció 20 dia següent: {}".format(score19))
score20=math.sqrt(mean_squared_error(y_daily[n_train:lenght,20], llista_p20))
print("Error predicció 21 dia següent: {}".format(score20))
score21=math.sqrt(mean_squared_error(y_daily[n_train:lenght,21], llista_p21))
print("Error predicció 22 dia següent: {}".format(score21))
score22=math.sqrt(mean_squared_error(y_daily[n_train:lenght,22], llista_p22))
print("Error predicció 23 dia següent: {}".format(score22))
```

```

score23=math.sqrt(mean_squared_error(y_daily[n_train:lenght,23], llista_p23))
print("Error predicció 24 dia següent: {}".format(score23))
score24=math.sqrt(mean_squared_error(y_daily[n_train:lenght,24], llista_p24))
print("Error predicció 25 dia següent: {}".format(score24))
score25=math.sqrt(mean_squared_error(y_daily[n_train:lenght,25], llista_p25))
print("Error predicció 26 dia següent: {}".format(score25))
score26=math.sqrt(mean_squared_error(y_daily[n_train:lenght,26], llista_p26))
print("Error predicció 27 dia següent: {}".format(score26))
score27=math.sqrt(mean_squared_error(y_daily[n_train:lenght,27], llista_p27))
print("Error predicció 28 dia següent: {}".format(score27))
score28=math.sqrt(mean_squared_error(y_daily[n_train:lenght,28], llista_p28))
print("Error predicció 29 dia següent: {}".format(score28))
score29=math.sqrt(mean_squared_error(y_daily[n_train:lenght,29], llista_p29))
print("Error predicció 30 dia següent: {}".format(score29))

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

```

```

print("Error predicció 47 dia següent: {}".format(score46))
score47=math.sqrt(mean_squared_error(y_daily[n_train:lenght,47], llista_p47))
print("Error predicció 48 dia següent: {}".format(score47))
score48=math.sqrt(mean_squared_error(y_daily[n_train:lenght,48], llista_p48))
print("Error predicció 49 dia següent: {}".format(score48))
score49=math.sqrt(mean_squared_error(y_daily[n_train:lenght,49], llista_p49))
print("Error predicció 50 dia següent: {}".format(score49))
score50=math.sqrt(mean_squared_error(y_daily[n_train:lenght,50], llista_p50))
print("Error predicció 51 dia següent: {}".format(score50))
score51=math.sqrt(mean_squared_error(y_daily[n_train:lenght,51], llista_p51))
print("Error predicció 52 dia següent: {}".format(score51))
score52=math.sqrt(mean_squared_error(y_daily[n_train:lenght,52], llista_p52))
print("Error predicció 53 dia següent: {}".format(score52))
score53=math.sqrt(mean_squared_error(y_daily[n_train:lenght,53], llista_p53))
print("Error predicció 54 dia següent: {}".format(score53))
score54=math.sqrt(mean_squared_error(y_daily[n_train:lenght,54], llista_p54))
print("Error predicció 55 dia següent: {}".format(score54))
score55=math.sqrt(mean_squared_error(y_daily[n_train:lenght,55], llista_p55))
print("Error predicció 56 dia següent: {}".format(score55))
score56=math.sqrt(mean_squared_error(y_daily[n_train:lenght,56], llista_p56))
print("Error predicció 57 dia següent: {}".format(score56))
score57=math.sqrt(mean_squared_error(y_daily[n_train:lenght,57], llista_p57))
print("Error predicció 58 dia següent: {}".format(score57))
score58=math.sqrt(mean_squared_error(y_daily[n_train:lenght,58], llista_p58))
print("Error predicció 59 dia següent: {}".format(score58))
score59=math.sqrt(mean_squared_error(y_daily[n_train:lenght,59], llista_p59))
print("Error predicció 60 dia següent: {}".format(score59))

```

```

Error predicció 1 dia següent: 0.04554174808183954
Error predicció 2 dia següent: 0.04874270774416747
Error predicció 3 dia següent: 0.050902349316397595
Error predicció 4 dia següent: 0.05212259374675393
Error predicció 5 dia següent: 0.055651889339802196
Error predicció 6 dia següent: 0.06072442898485177
Error predicció 7 dia següent: 0.062116660019193366
Error predicció 8 dia següent: 0.06062435411701553
Error predicció 9 dia següent: 0.06292869324902442
Error predicció 10 dia següent: 0.06811261199768653
Error predicció 11 dia següent: 0.06765964476845497
Error predicció 12 dia següent: 0.06669606282954284
Error predicció 13 dia següent: 0.07077233511928248
Error predicció 14 dia següent: 0.07288828274078953
Error predicció 15 dia següent: 0.07476190749044664
Error predicció 16 dia següent: 0.07560852105057292
Error predicció 17 dia següent: 0.0844046207888959
Error predicció 18 dia següent: 0.0882887867151327
Error predicció 19 dia següent: 0.09036555811032823
Error predicció 20 dia següent: 0.08804968510772046

```

```

Error predicció 21 dia següent: 0.08594535137863074
Error predicció 22 dia següent: 0.08737583623242912
Error predicció 23 dia següent: 0.09062524860568202
Error predicció 24 dia següent: 0.09053227984773812
Error predicció 25 dia següent: 0.09034030304778812
Error predicció 26 dia següent: 0.09311310782806986
Error predicció 27 dia següent: 0.094427409689534
Error predicció 28 dia següent: 0.09598833102444151
Error predicció 29 dia següent: 0.09684883446295388
Error predicció 30 dia següent: 0.09919502548586263
Error predicció 31 dia següent: 0.09664831948104105
Error predicció 32 dia següent: 0.09587492411655041
Error predicció 33 dia següent: 0.09441682392097041
Error predicció 34 dia següent: 0.09572420979993616
Error predicció 35 dia següent: 0.09104415262953595
Error predicció 36 dia següent: 0.09107620987059303
Error predicció 37 dia següent: 0.0934511536564005
Error predicció 38 dia següent: 0.0912182476619563
Error predicció 39 dia següent: 0.0882273215942756
Error predicció 40 dia següent: 0.08886177466410716
Error predicció 41 dia següent: 0.08680421134728288
Error predicció 42 dia següent: 0.08894176976988748
Error predicció 43 dia següent: 0.08789205554532034
Error predicció 44 dia següent: 0.08836877397953237
Error predicció 45 dia següent: 0.08329205216397706
Error predicció 46 dia següent: 0.08263968138064384
Error predicció 47 dia següent: 0.08247183259234075
Error predicció 48 dia següent: 0.0833310506962542
Error predicció 49 dia següent: 0.08384997353056574
Error predicció 50 dia següent: 0.08676269438515125
Error predicció 51 dia següent: 0.08689362927741899
Error predicció 52 dia següent: 0.08652880154816349
Error predicció 53 dia següent: 0.08645283518354474
Error predicció 54 dia següent: 0.0858665760936956
Error predicció 55 dia següent: 0.08936058420523006
Error predicció 56 dia següent: 0.08916086288526218
Error predicció 57 dia següent: 0.08908628872692025
Error predicció 58 dia següent: 0.09086623519440076
Error predicció 59 dia següent: 0.09075403845155135
Error predicció 60 dia següent: 0.09068754042445028

```

```

In [16]: predis=list()

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

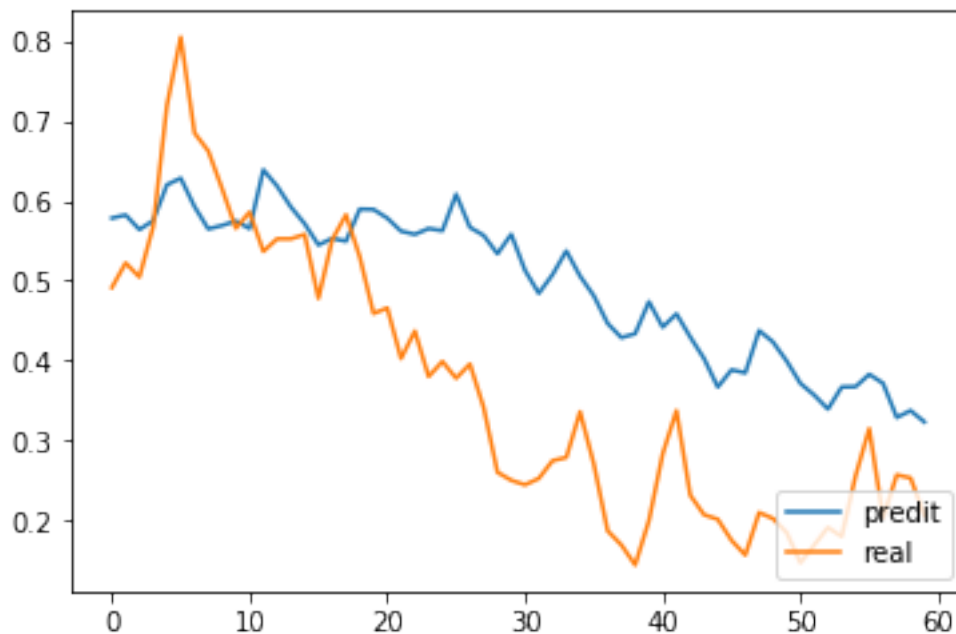
```

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

```
predis
```

```
Out[16]: array([[0.57454318, 0.58816236, 0.57990891, ..., 0.46004632, 0.43069625,
 0.46427974],
 [0.59401518, 0.61209875, 0.57811505, ..., 0.40691683, 0.37189317,
 0.33761147],
 [0.65975022, 0.63084948, 0.58029515, ..., 0.40218878, 0.3660841 ,
 0.3185432 ],
 ...,
 [0.5464077 , 0.60755146, 0.68277192, ..., 0.56994253, 0.50101388,
 0.37517554],
 [0.5080449 , 0.55749786, 0.54539883, ..., 0.51842839, 0.42105466,
 0.4032948 ],
 [0.58327287, 0.51458347, 0.49871576, ..., 0.50046355, 0.42821112,
 0.44100937]])
```

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



```
In [18]: ##Mostrem
plt.plot(llista_p0, label="predit1")
```

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

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

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

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

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

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

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

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



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

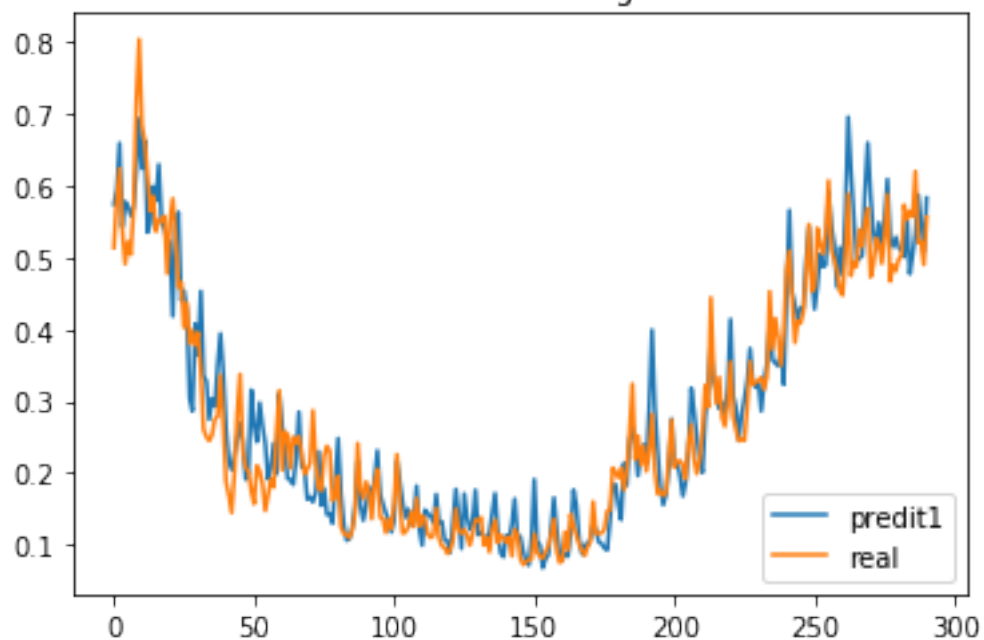
```
plt.plot(llista_p29, label="predit30")
plt.plot(y_daily[n_train:lenght,29], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 30 dia següent")
plt.show()
```

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

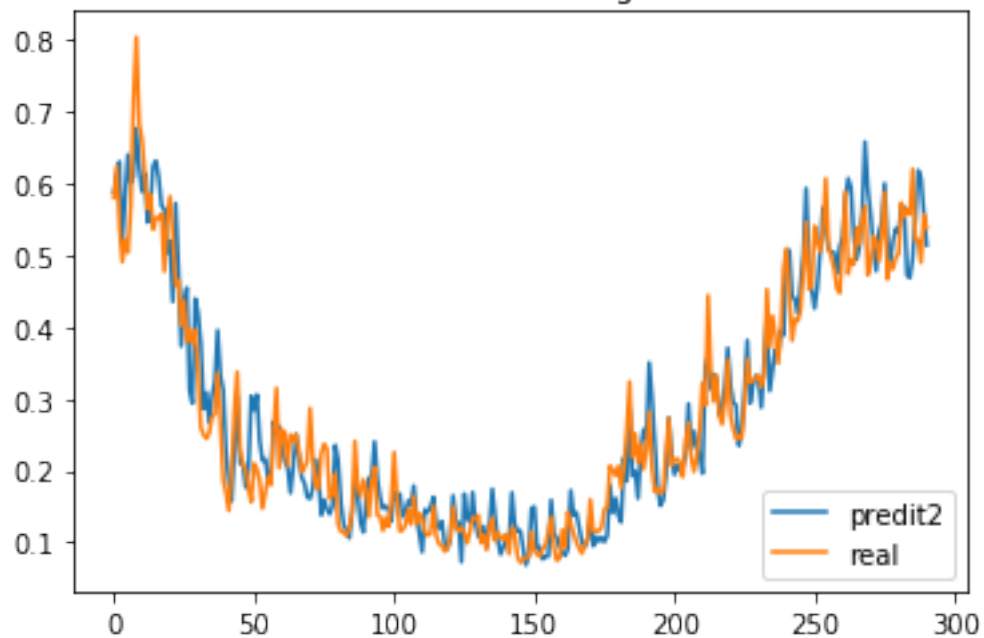
```
plt.plot(llista_p49, label="predit50")
plt.plot(y_daily[n_train:lenght,49], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 50 dia següent")
plt.show()
```

```
plt.plot(llista_p59, label="predit60")
plt.plot(y_daily[n_train:lenght,59], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 60 dia següent")
plt.show()
```

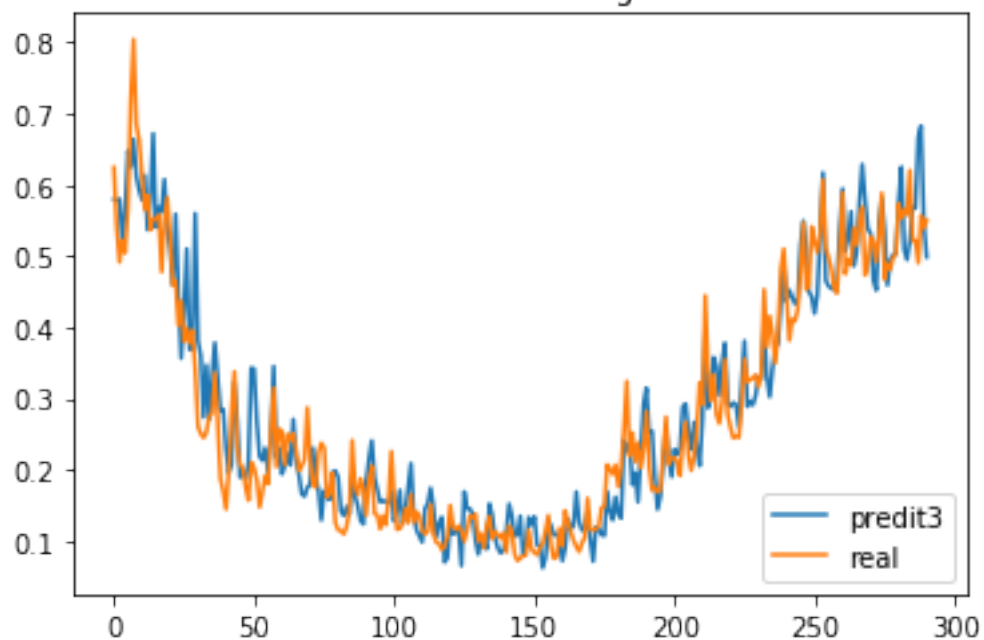

Predicció 1 dia següent



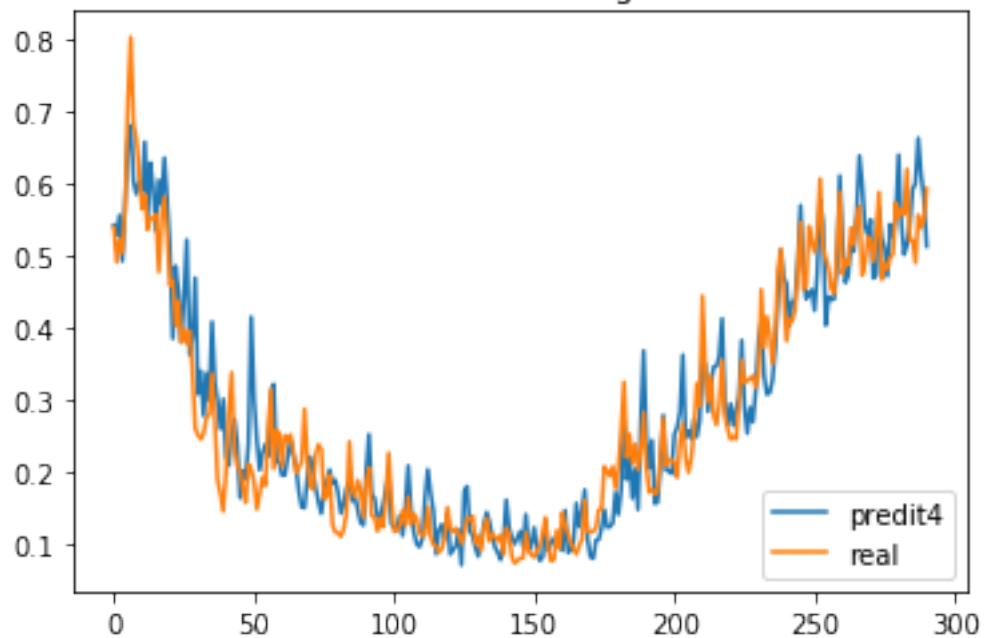
Predicció 2 dia següent



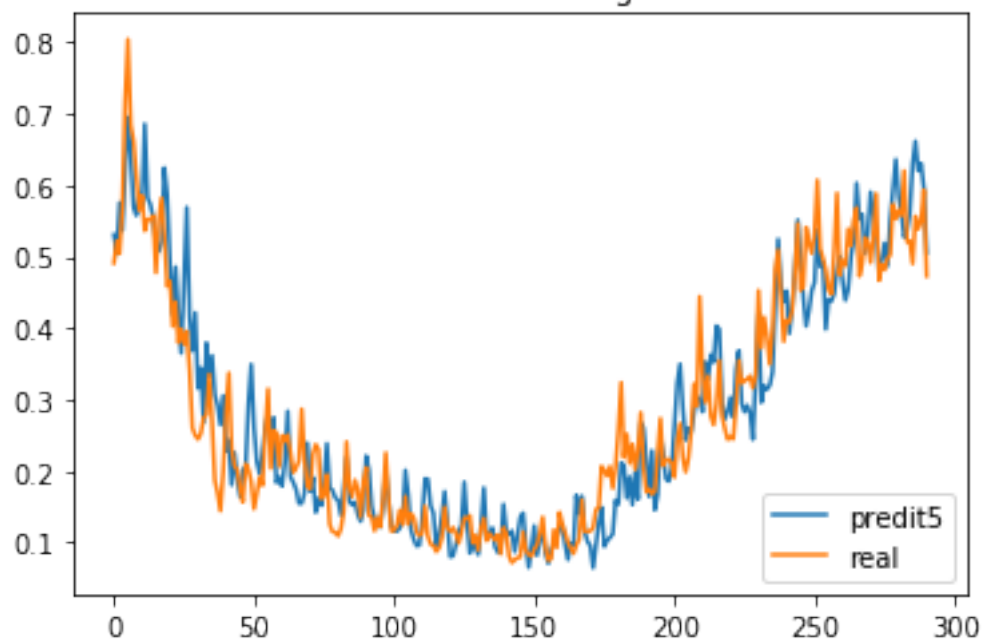
Predicció 3 dia següent



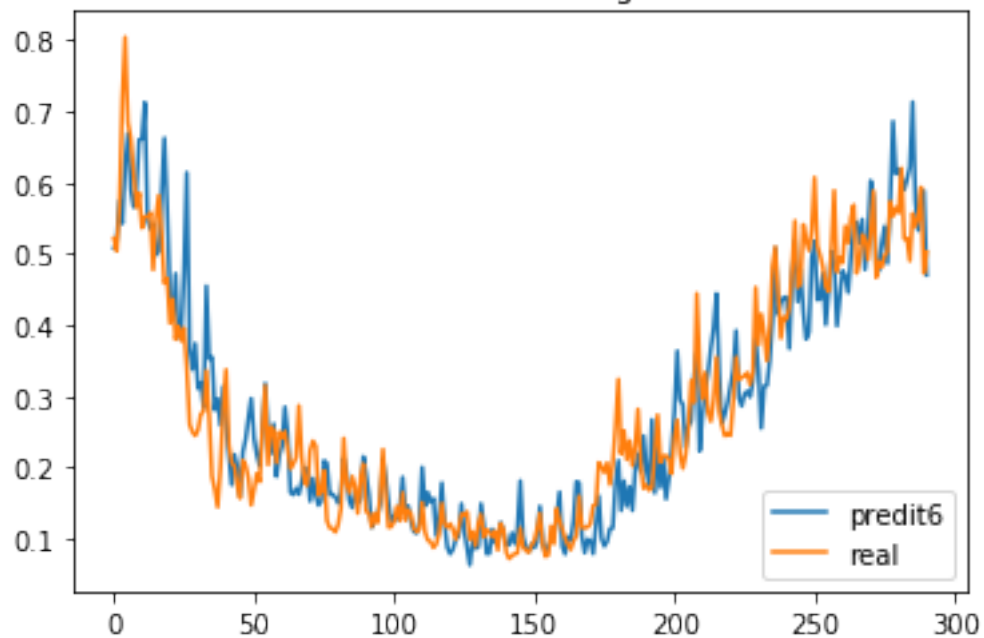
Predicció 4 dia següent



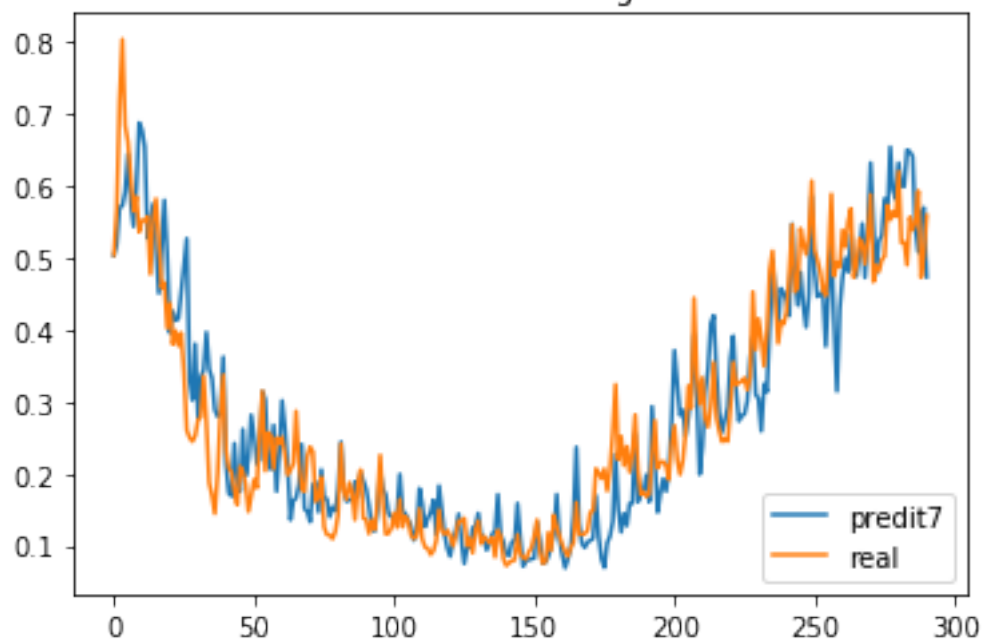
Predicció 5 dia següent



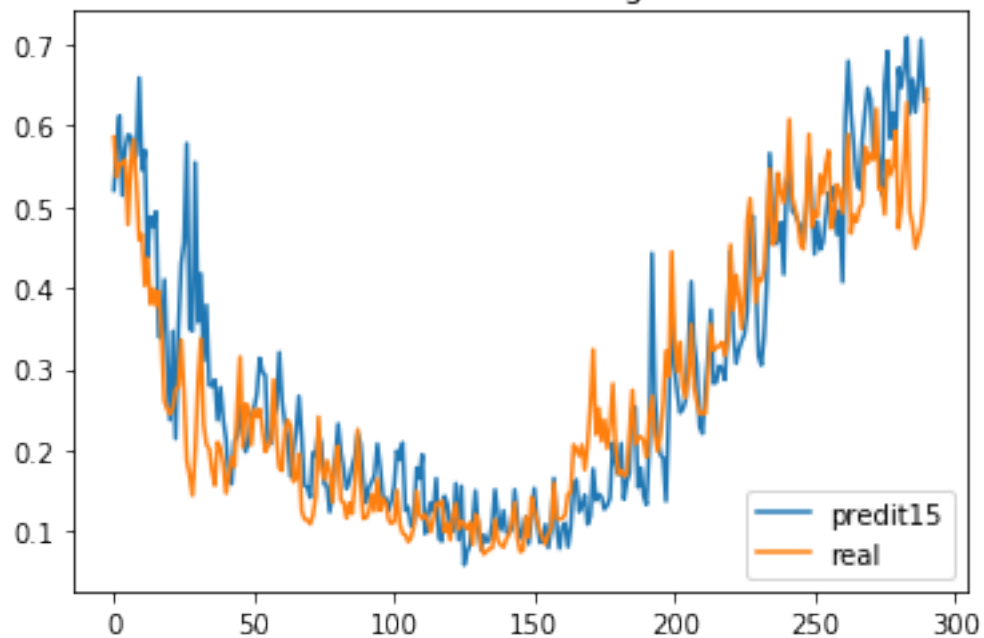
Predicció 6 dia següent



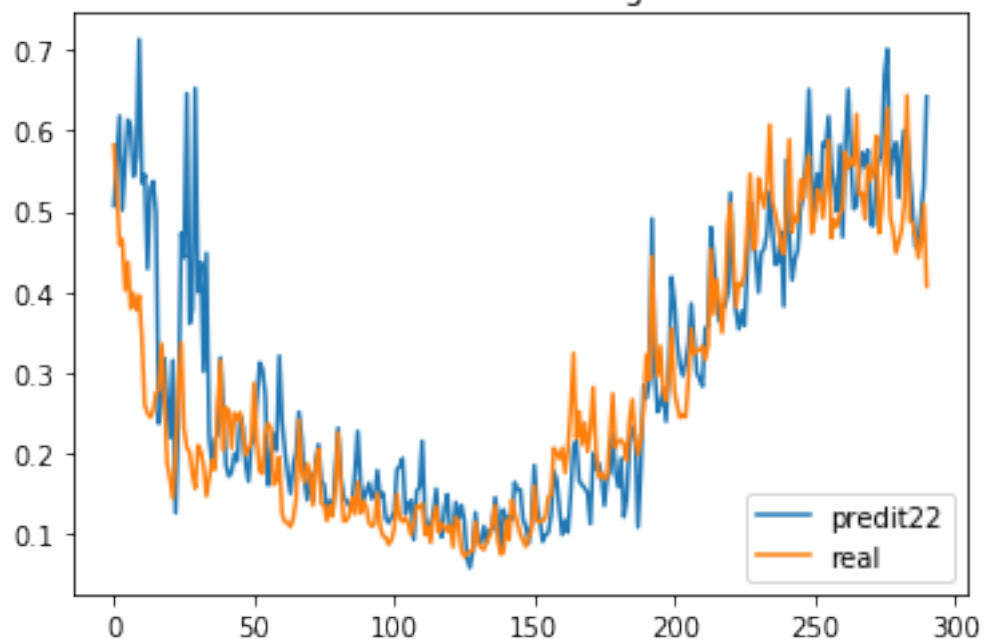
Predicció 7 dia següent



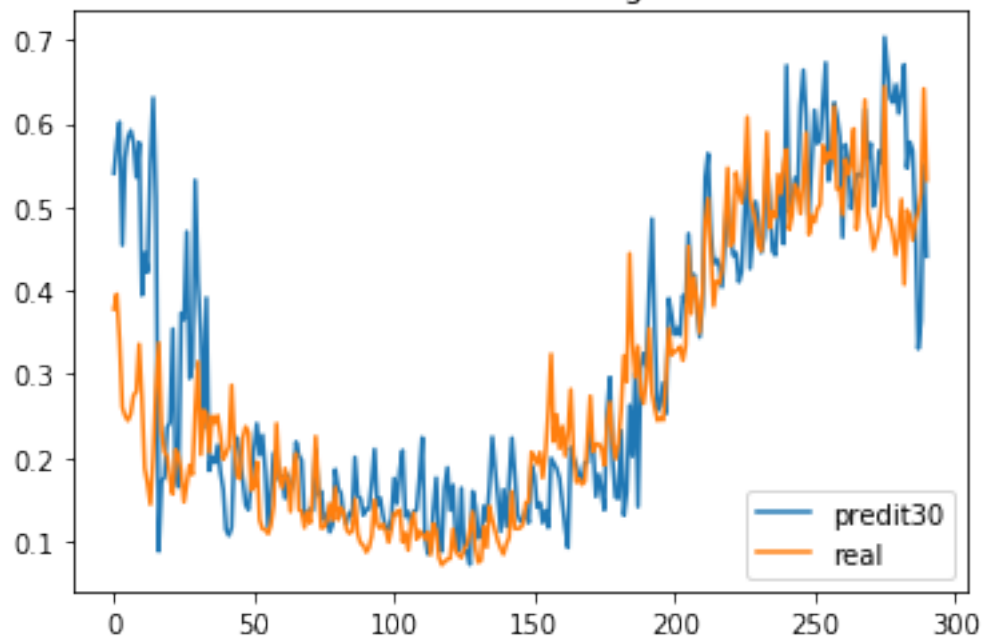
Predicció 15 dia següent



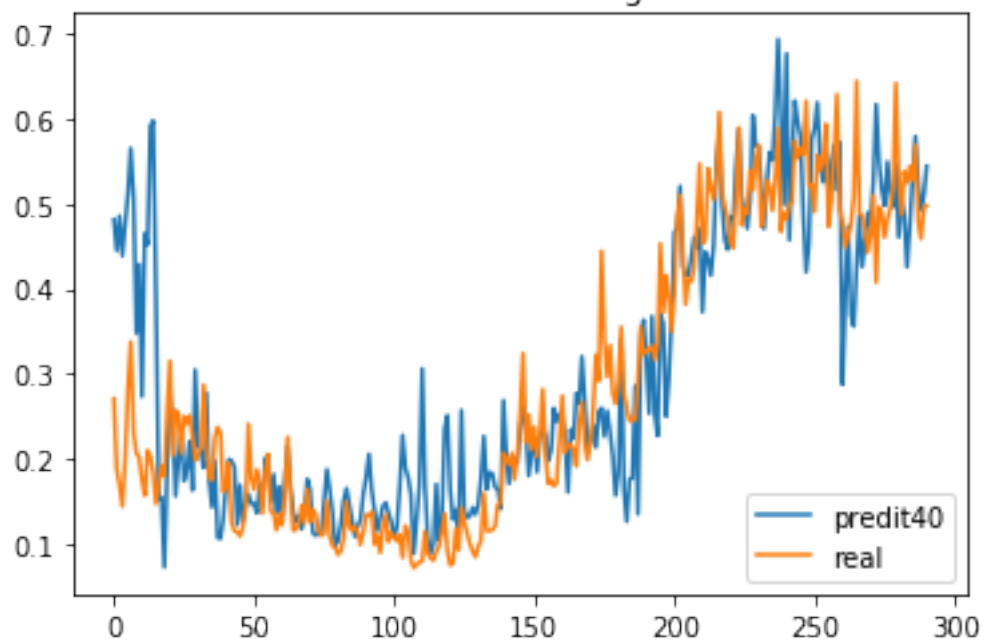
Predicció 22 dia següent



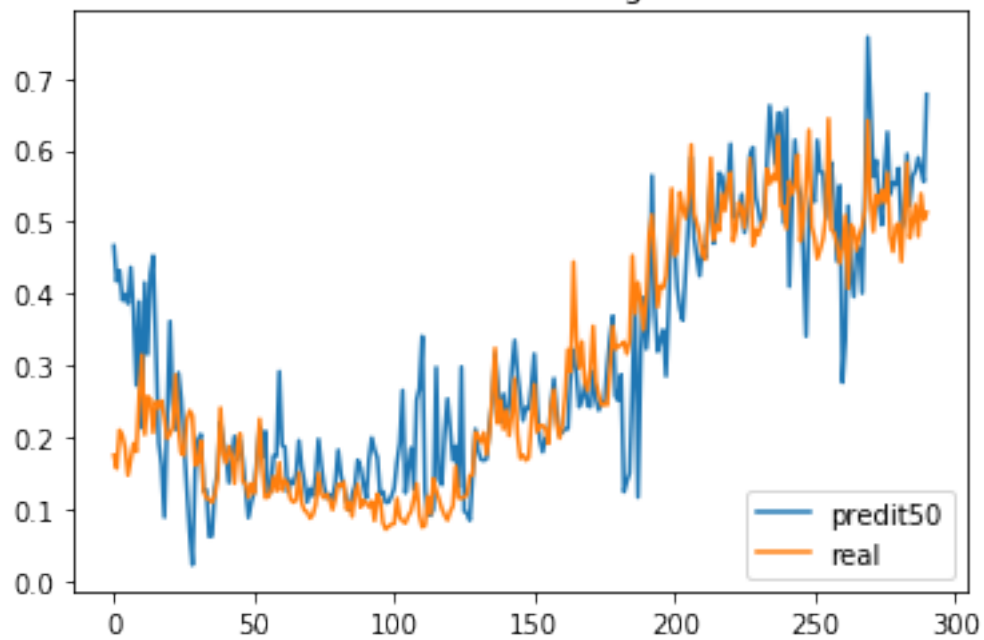
Predicció 30 dia següent

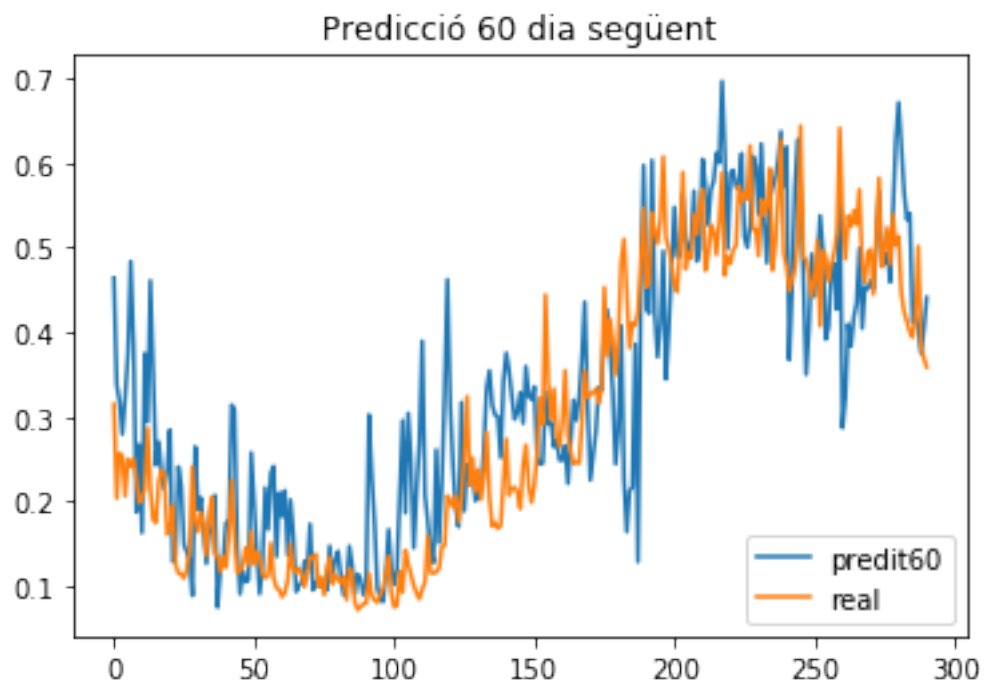


Predicció 40 dia següent



Predicció 50 dia següent





In []:

In [19]: llista_scores

Out [19]: [0.18208083636534245,
0.15966563945354215,
0.17979642885112354,
0.14929489412269645,
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0.11040458251066249,
0.06157727183662737,
0.07892308667226439,

0.09001748080403564,
0.06969341337281038,
0.06490134358335754,
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0.14600594225802888,
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0.12552698871375242,
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0.07364745609993818,
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0.06346475633654841,
0.06538796554422087,
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0.06063137417009365,
0.054591361785789494,
0.05169220362408241,
0.05678252517410612,
0.07474518024904045,
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0.04566018498599143,
0.04419612633946413,
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0.04417493836827247,
0.05823157509179018,
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0.03417067244551693,
0.041009776796613245,
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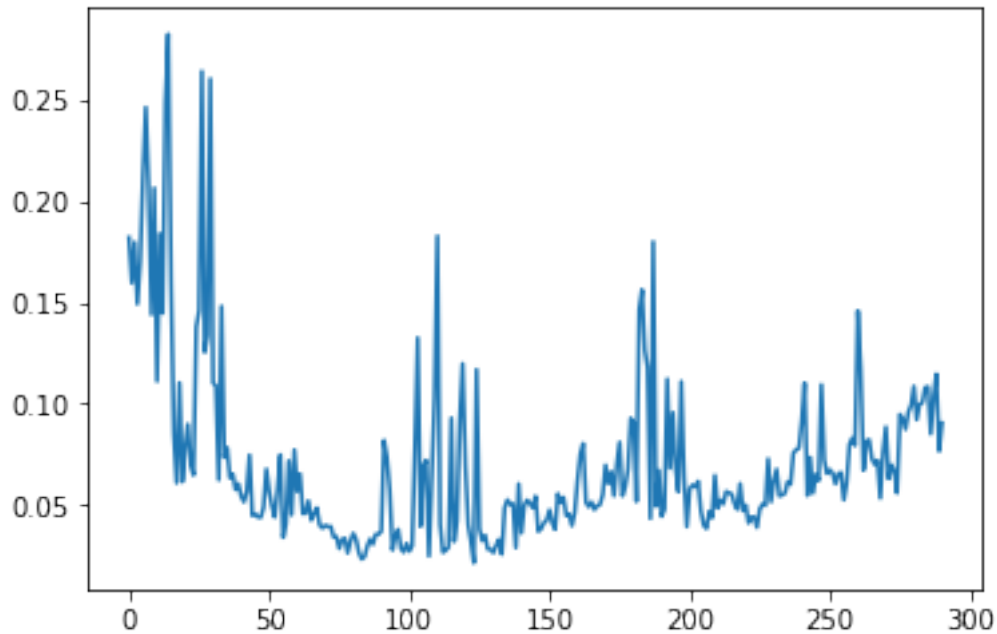
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0.054646438583260244,
0.059097517886945165,
0.06775874905101087,
0.0929311546682257,
0.09075401451560049,
0.051845523156299464,
0.14641494071336905,
0.15628966717858747,
0.12639413337104047,
0.11801676752435544,
0.04343928417853458,
0.17999492947619908,
0.04940353571247683,
0.0672076756647753,
0.04458159216153832,
0.04797290660592275,
0.1123017647530754,
0.06831748108418781,
0.09576183903065827,
0.06796980281925172,
0.05665083423257064,
0.11104995548082679,
0.06378440727966052,
0.039433231051250274,
0.057985406561379904,
0.05994275763410909,
0.05903184619585558,
0.06177723522906988,
0.04724283578472701,
0.040223345969443276,
0.038541573391357664,
0.04694810024708792,
0.04382652650806928,
0.06473463699099113,
0.04859748974105448,
0.05263039273919595,
0.05065527883001846,

0.05677107689895787,
0.05610106030604365,
0.05550124042302053,
0.050743574406056376,
0.04806422364001946,
0.06067630321433498,
0.04728906832040549,
0.050087031355740774,
0.04129450358937655,
0.04416001443815102,
0.04416523526421327,
0.03908480111693561,
0.04810886524255058,
0.05053271901654134,
0.0498295674025697,
0.07288705481319784,
0.05167653679198466,
0.06167759289177558,
0.06775448371446,
0.054561933623348956,
0.05507673923183693,
0.055960216656761805,
0.061625298024041944,
0.060304811742975674,
0.07579489813020145,
0.07739599618428214,
0.0782044528102445,
0.09167447894903646,
0.11032551877227953,
0.054780277931561074,
0.07364179940617674,
0.055976028442502615,
0.06517498057960669,
0.062153554161399345,
0.1095060686563684,
0.07223076712110915,
0.0656802006602963,
0.06746678079340578,
0.0657741364327072,
0.06058419578911111,
0.0655724104809279,
0.06607575546824253,
0.05264908920267369,
0.06084077671475747,
0.07996088782676454,
0.08309915190370352,
0.07952359397866236,
0.14592321297319108,

```
0.11759657096893719,  
0.0672817816000172,  
0.0815552290160422,  
0.08235734422674681,  
0.0730688886583267,  
0.07015360144105956,  
0.0721912153593929,  
0.053491302805354364,  
0.07613695077118844,  
0.08862090122482699,  
0.06309860407399437,  
0.06988236057884749,  
0.06674850367986115,  
0.05605895534140215,  
0.09478655846694099,  
0.09279002420323663,  
0.08748872175412607,  
0.09592680137758647,  
0.09933861169878609,  
0.10865679107340653,  
0.09221365814919172,  
0.0998342722710988,  
0.10051031190028745,  
0.10802947340552038,  
0.10847422651306433,  
0.08519685909549225,  
0.10418270332198262,  
0.11469016744344905,  
0.07674663605669713,  
0.0905640175288368]
```

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

```
Out[20]: [<matplotlib.lines.Line2D at 0x191e21b2f98>]
```



```
In [25]: prova=daily_dia.iloc[n_train:lenght]
prova
#len(predis)
#lenght-n_train
#prova['predi']=predis
prova['predi1']=llista_p0
prova['predi2']=llista_p1
prova['predi3']=llista_p2
prova['predi4']=llista_p3
prova['predi5']=llista_p4
prova['predi6']=llista_p5
prova['predi7']=llista_p6
prova['predi8']=llista_p7
prova['predi9']=llista_p8
prova['predi10']=llista_p9
prova['predi11']=llista_p10
prova['predi12']=llista_p11
prova['predi13']=llista_p12
prova['predi14']=llista_p13
prova['predi15']=llista_p14
prova['predi16']=llista_p15
prova['predi17']=llista_p16
prova['predi18']=llista_p17
prova['predi19']=llista_p18
prova['predi20']=llista_p19
prova['predi21']=llista_p20
```

```

prova['predi22']=llista_p21
prova['predi23']=llista_p22
prova['predi24']=llista_p23
prova['predi25']=llista_p24
prova['predi26']=llista_p25
prova['predi27']=llista_p26
prova['predi28']=llista_p27
prova['predi29']=llista_p28
prova['predi30']=llista_p29
prova['predi31']=llista_p30
prova['predi32']=llista_p31
prova['predi33']=llista_p32
prova['predi34']=llista_p33
prova['predi35']=llista_p34
prova['predi36']=llista_p35
prova['predi37']=llista_p36
prova['predi38']=llista_p37
prova['predi39']=llista_p38
prova['predi40']=llista_p39
prova['predi41']=llista_p40
prova['predi42']=llista_p41
prova['predi43']=llista_p42
prova['predi44']=llista_p43
prova['predi45']=llista_p44
prova['predi46']=llista_p45
prova['predi47']=llista_p46
prova['predi48']=llista_p47
prova['predi49']=llista_p48
prova['predi50']=llista_p49
prova['predi51']=llista_p50
prova['predi52']=llista_p51
prova['predi53']=llista_p52
prova['predi54']=llista_p53
prova['predi55']=llista_p54
prova['predi56']=llista_p55
prova['predi57']=llista_p56
prova['predi58']=llista_p57
prova['predi59']=llista_p58
prova['predi60']=llista_p59

```

```

prova['y1']=y_daily[n_train:lenght,0]
prova['y2']=y_daily[n_train:lenght,1]
prova['y3']=y_daily[n_train:lenght,2]
prova['y4']=y_daily[n_train:lenght,3]
prova['y5']=y_daily[n_train:lenght,4]
prova['y6']=y_daily[n_train:lenght,5]
prova['y7']=y_daily[n_train:lenght,6]

```

```

prova['y8']=y_daily[n_train:lenght,7]
prova['y9']=y_daily[n_train:lenght,8]
prova['y10']=y_daily[n_train:lenght,9]
prova['y11']=y_daily[n_train:lenght,10]
prova['y12']=y_daily[n_train:lenght,11]
prova['y13']=y_daily[n_train:lenght,12]
prova['y14']=y_daily[n_train:lenght,13]
prova['y15']=y_daily[n_train:lenght,14]
prova['y16']=y_daily[n_train:lenght,15]
prova['y17']=y_daily[n_train:lenght,16]
prova['y18']=y_daily[n_train:lenght,17]
prova['y19']=y_daily[n_train:lenght,18]
prova['y20']=y_daily[n_train:lenght,19]
prova['y21']=y_daily[n_train:lenght,20]
prova['y22']=y_daily[n_train:lenght,21]
prova['y23']=y_daily[n_train:lenght,22]
prova['y24']=y_daily[n_train:lenght,23]
prova['y25']=y_daily[n_train:lenght,24]
prova['y26']=y_daily[n_train:lenght,25]
prova['y27']=y_daily[n_train:lenght,26]
prova['y28']=y_daily[n_train:lenght,27]
prova['y29']=y_daily[n_train:lenght,28]
prova['y30']=y_daily[n_train:lenght,29]

```

```

prova['y31']=y_daily[n_train:lenght,20]
prova['y32']=y_daily[n_train:lenght,21]
prova['y33']=y_daily[n_train:lenght,22]
prova['y34']=y_daily[n_train:lenght,23]
prova['y35']=y_daily[n_train:lenght,24]
prova['y36']=y_daily[n_train:lenght,25]
prova['y37']=y_daily[n_train:lenght,26]
prova['y38']=y_daily[n_train:lenght,27]
prova['y39']=y_daily[n_train:lenght,28]
prova['y40']=y_daily[n_train:lenght,19]
prova['y41']=y_daily[n_train:lenght,20]
prova['y42']=y_daily[n_train:lenght,21]
prova['y43']=y_daily[n_train:lenght,22]
prova['y44']=y_daily[n_train:lenght,23]
prova['y45']=y_daily[n_train:lenght,24]
prova['y46']=y_daily[n_train:lenght,25]
prova['y47']=y_daily[n_train:lenght,26]
prova['y48']=y_daily[n_train:lenght,27]
prova['y49']=y_daily[n_train:lenght,28]
prova['y50']=y_daily[n_train:lenght,19]
prova['y51']=y_daily[n_train:lenght,20]
prova['y52']=y_daily[n_train:lenght,21]
prova['y53']=y_daily[n_train:lenght,22]

```



```

prova['y54']=y_daily[n_train:lenght,23]
prova['y55']=y_daily[n_train:lenght,24]
prova['y56']=y_daily[n_train:lenght,25]
prova['y57']=y_daily[n_train:lenght,26]
prova['y58']=y_daily[n_train:lenght,27]
prova['y59']=y_daily[n_train:lenght,28]
prova['y60']=y_daily[n_train:lenght,29]

```

```

prova=prova.drop(['energy_sum','t-1','t-2','t-3','t-4','t-5','t-6','t-7','t-8','t-9'])
prova

```

```

prova1=prova[['predi1','predi2','predi3','predi4','predi5','predi6','predi7','predi8','predi9','predi10']]
prova

```

```

prova2=prova[['predi15','predi16','predi17','predi18','predi19','predi20','predi21','predi22','predi23','predi24','predi25','predi26','predi27','predi28','predi29','predi30']]

```

c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:1:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

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

c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:1:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/indexing.html>
if __name__ == '__main__':
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:1:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/indexing.html>
Remove the CWD from sys.path while we load stuff.
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:1:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/indexing.html>
This is added back by InteractiveShellApp.init_path()
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:1:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/indexing.html>
if sys.path[0] == '':

```
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
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:
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```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
from ipykernel import kernelapp as app
```

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

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

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

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

```
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```

```
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```

```
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```

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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

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A value is trying to be set on a copy of a slice from a DataFrame.
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A value is trying to be set on a copy of a slice from a DataFrame.
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c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.

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

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

```
In [26]: #Tornem valors a normals
```

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

```
In [29]: llista1=list()
         llista2=list()
         llista3=list()
         llista4=list()
         llista5=list()
         llista6=list()
         llista7=list()
         llista8=list()
         llista9=list()
         llista10=list()
         llista11=list()
         llista12=list()
         llista13=list()
         llista14=list()
         llista15=list()
         llista16=list()
         llista17=list()
         llista18=list()
         llista19=list()
         llista20=list()
         llista21=list()
         llista22=list()
         llista23=list()
         llista24=list()
         llista25=list()
         llista26=list()
         llista27=list()
         llista28=list()
         llista29=list()
         llista30=list()

         llista31=list()
         llista32=list()
         llista33=list()
         llista34=list()
         llista35=list()
         llista36=list()
         llista37=list()
```

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

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

```
llistay24=list()
llistay25=list()
llistay26=list()
llistay27=list()
llistay28=list()
llistay29=list()
llistay30=list()
llistay31=list()
llistay32=list()
llistay33=list()
llistay34=list()
llistay35=list()
llistay36=list()
llistay37=list()
llistay38=list()
llistay39=list()
llistay40=list()
llistay41=list()
llistay42=list()
llistay43=list()
llistay44=list()
llistay45=list()
llistay46=list()
llistay47=list()
llistay48=list()
llistay49=list()
llistay50=list()
llistay51=list()
llistay52=list()
llistay53=list()
llistay54=list()
llistay55=list()
llistay56=list()
llistay57=list()
llistay58=list()
llistay59=list()
llistay60=list()

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

llista_errors60=list()
llista_errorsabs60=list()
llista_errorsres60=list()

llista_errorsres8=list()
llista_errorsres9=list()
llista_errorsres11=list()
llista_errorsres12=list()
llista_errorsres13=list()
llista_errorsres14=list()
llista_errorsres16=list()
llista_errorsres17=list()
llista_errorsres18=list()
llista_errorsres19=list()
llista_errorsres21=list()
llista_errorsres22=list()
llista_errorsres23=list()
llista_errorsres24=list()
llista_errorsres26=list()
llista_errorsres27=list()
llista_errorsres28=list()
llista_errorsres29=list()
llista_errorsres31=list()
llista_errorsres32=list()
llista_errorsres33=list()
llista_errorsres34=list()
llista_errorsres36=list()
llista_errorsres37=list()
llista_errorsres38=list()
llista_errorsres39=list()
llista_errorsres41=list()
llista_errorsres42=list()
llista_errorsres43=list()
llista_errorsres44=list()
llista_errorsres46=list()
llista_errorsres47=list()
```

```

llista_errorsres48=list()
llista_errorsres49=list()
llista_errorsres51=list()
llista_errorsres52=list()
llista_errorsres53=list()
llista_errorsres54=list()
llista_errorsres56=list()
llista_errorsres57=list()
llista_errorsres58=list()
llista_errorsres59=list()

```

```

for i in range(len(predi)):

```

```

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

```

```

    llistay1.append(predi[i][14])
    llistay2.append(predi[i][15])
    llistay3.append(predi[i][16])
    llistay4.append(predi[i][17])
    llistay5.append(predi[i][18])
    llistay6.append(predi[i][19])
    llistay7.append(predi[i][20])
    llistay8.append(predi[i][21])
    llistay9.append(predi[i][22])
    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])

```

```
l1listay20.append(predi[i][33])
l1listay21.append(predi[i][34])
l1listay22.append(predi[i][35])
l1listay23.append(predi[i][36])
l1listay24.append(predi[i][37])
l1listay25.append(predi[i][38])
l1listay26.append(predi[i][39])
l1listay27.append(predi[i][40])
l1listay28.append(predi[i][41])
l1listay29.append(predi[i][42])
l1listay30.append(predi[i][43])
```

```
l1listay31.append(predi[i][44])
l1listay32.append(predi[i][45])
l1listay33.append(predi[i][46])
l1listay34.append(predi[i][47])
l1listay35.append(predi[i][48])
l1listay36.append(predi[i][49])
l1listay37.append(predi[i][50])
l1listay38.append(predi[i][51])
l1listay39.append(predi[i][52])
l1listay40.append(predi[i][53])
l1listay41.append(predi[i][54])
l1listay42.append(predi[i][55])
l1listay43.append(predi[i][56])
l1listay44.append(predi[i][57])
l1listay45.append(predi[i][58])
l1listay46.append(predi[i][59])
l1listay47.append(predi[i][60])
l1listay48.append(predi[i][61])
l1listay49.append(predi[i][62])
l1listay50.append(predi[i][63])
l1listay51.append(predi[i][64])
l1listay52.append(predi[i][65])
l1listay53.append(predi[i][66])
l1listay54.append(predi[i][67])
l1listay55.append(predi[i][68])
l1listay56.append(predi[i][69])
l1listay57.append(predi[i][70])
l1listay58.append(predi[i][71])
l1listay59.append(predi[i][72])
l1listay60.append(predi[i][73])
```

```
llista15.append(predi2[i][0])
llista16.append(predi2[i][1])
llista17.append(predi2[i][2])
llista18.append(predi2[i][3])
llista19.append(predi2[i][4])
llista20.append(predi2[i][5])
llista21.append(predi2[i][6])
llista22.append(predi2[i][7])
llista23.append(predi2[i][8])
llista24.append(predi2[i][9])
llista25.append(predi2[i][10])
llista26.append(predi2[i][11])
llista27.append(predi2[i][12])
llista28.append(predi2[i][13])
llista29.append(predi2[i][14])
llista30.append(predi2[i][15])
llista31.append(predi2[i][16])
llista32.append(predi2[i][17])
llista33.append(predi2[i][18])
llista34.append(predi2[i][19])
llista35.append(predi2[i][20])
llista36.append(predi2[i][21])
llista37.append(predi2[i][22])
llista38.append(predi2[i][23])
llista39.append(predi2[i][24])
llista40.append(predi2[i][25])
llista41.append(predi2[i][26])
llista42.append(predi2[i][27])
llista43.append(predi2[i][28])
llista44.append(predi2[i][29])
llista45.append(predi2[i][30])
llista46.append(predi2[i][31])
llista47.append(predi2[i][32])
llista48.append(predi2[i][33])
llista49.append(predi2[i][34])
llista50.append(predi2[i][35])
llista51.append(predi2[i][36])
llista52.append(predi2[i][37])
llista53.append(predi2[i][38])
llista54.append(predi2[i][39])
llista55.append(predi2[i][40])
llista56.append(predi2[i][41])
llista57.append(predi2[i][42])
llista58.append(predi2[i][43])
llista59.append(predi2[i][44])
llista60.append(predi2[i][45])
```

```

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

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

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

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

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

valor6=llistay6[i] - llista6[i]
valorabs6=math.fabs(valor6)
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=l1listay16[i] - llista16[i]
valorabs16=math.fabs(valor16)
valorrespecte16=valorabs16/l1listay16[i]
llista_errorsres16.append(valorrespecte16)

valor17=l1listay17[i] - llista17[i]
valorabs17=math.fabs(valor17)
valorrespecte17=valorabs17/l1listay17[i]
llista_errorsres17.append(valorrespecte17)

valor18=l1listay18[i] - llista18[i]
valorabs18=math.fabs(valor18)
valorrespecte18=valorabs18/l1listay18[i]
llista_errorsres18.append(valorrespecte18)

valor19=l1listay19[i] - llista19[i]
valorabs19=math.fabs(valor19)
valorrespecte19=valorabs19/l1listay19[i]
llista_errorsres19.append(valorrespecte19)

valor20=l1listay20[i] - llista20[i]
valorabs20=math.fabs(valor20)
valorrespecte20=valorabs20/l1listay20[i]
llista_errors20.append(valor20)
llista_errorsabs20.append(valorabs20)
llista_errorsres20.append(valorrespecte20)

valor25=l1listay25[i] - llista25[i]
valorabs25=math.fabs(valor25)
valorrespecte25=valorabs25/l1listay25[i]
llista_errors25.append(valor25)
llista_errorsabs25.append(valorabs25)
llista_errorsres25.append(valorrespecte25)

valor30=l1listay30[i] - llista30[i]
valorabs30=math.fabs(valor30)
valorrespecte30=valorabs30/l1listay30[i]
llista_errors30.append(valor30)
llista_errorsabs30.append(valorabs30)
llista_errorsres30.append(valorrespecte30)

valor35=l1listay35[i] - llista35[i]
valorabs35=math.fabs(valor35)
valorrespecte35=valorabs35/l1listay35[i]
llista_errors35.append(valor35)
llista_errorsabs35.append(valorabs35)
llista_errorsres35.append(valorrespecte35)

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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=l1listay23[i] - llista23[i]
valorabs23=math.fabs(valor23)
valorrespecte23=valorabs23/l1listay23[i]
l1lista_errorsres23.append(valorrespecte23)
```

```
valor24=l1listay24[i] - llista24[i]
valorabs24=math.fabs(valor24)
valorrespecte24=valorabs24/l1listay24[i]
l1lista_errorsres24.append(valorrespecte24)
```

```
valor26=l1listay26[i] - llista26[i]
valorabs26=math.fabs(valor26)
valorrespecte26=valorabs26/l1listay26[i]
l1lista_errorsres26.append(valorrespecte26)
```

```
valor27=l1listay27[i] - llista27[i]
valorabs27=math.fabs(valor27)
valorrespecte27=valorabs27/l1listay27[i]
l1lista_errorsres27.append(valorrespecte27)
```

```
valor28=l1listay28[i] - llista28[i]
valorabs28=math.fabs(valor28)
valorrespecte28=valorabs28/l1listay28[i]
l1lista_errorsres28.append(valorrespecte28)
```

```
valor29=l1listay29[i] - llista29[i]
valorabs29=math.fabs(valor29)
valorrespecte29=valorabs29/l1listay29[i]
l1lista_errorsres29.append(valorrespecte29)
```

```
valor31=l1listay31[i] - llista31[i]
valorabs31=math.fabs(valor31)
valorrespecte31=valorabs31/l1listay31[i]
l1lista_errorsres31.append(valorrespecte31)
```

```
valor32=l1listay32[i] - llista32[i]
valorabs32=math.fabs(valor32)
valorrespecte32=valorabs32/l1listay32[i]
l1lista_errorsres32.append(valorrespecte32)
```

```
valor33=l1listay33[i] - llista33[i]
valorabs33=math.fabs(valor33)
valorrespecte33=valorabs33/l1listay33[i]
```

```

llista_errorsres33.append(valorrespecte33)

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

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

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

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

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


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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

```

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

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

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

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

```

plt.show()
plt.plot(llista_errorsres30)
plt.title("Error percentual a 30 dies")
plt.show()

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

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

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

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

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

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

```



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

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

```
error_mitja51=sum(llista_errorsres51)/(len(llista_errorsres51))*100
error_mitja52=sum(llista_errorsres52)/(len(llista_errorsres52))*100
error_mitja53=sum(llista_errorsres53)/(len(llista_errorsres53))*100
error_mitja54=sum(llista_errorsres54)/(len(llista_errorsres54))*100
error_mitja56=sum(llista_errorsres56)/(len(llista_errorsres56))*100
error_mitja57=sum(llista_errorsres57)/(len(llista_errorsres57))*100
error_mitja58=sum(llista_errorsres58)/(len(llista_errorsres58))*100
error_mitja59=sum(llista_errorsres59)/(len(llista_errorsres59))*100
```

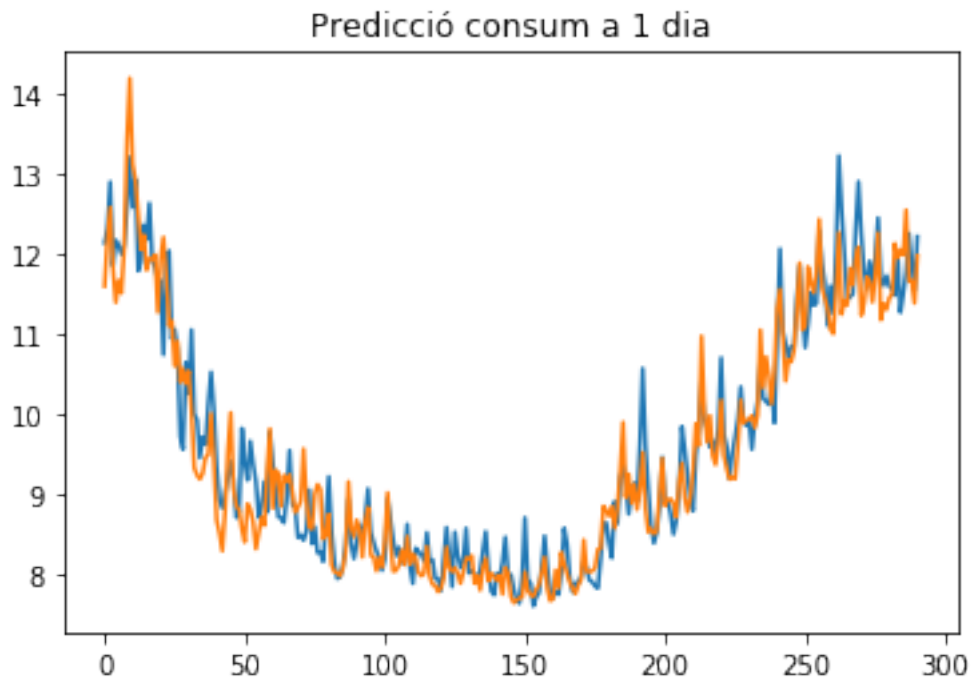
```
error_mitja35=sum(llista_errorsres35)/(len(llista_errorsres35))*100
error_mitja40=sum(llista_errorsres40)/(len(llista_errorsres40))*100
error_mitja45=sum(llista_errorsres45)/(len(llista_errorsres45))*100
error_mitja50=sum(llista_errorsres50)/(len(llista_errorsres50))*100
error_mitja55=sum(llista_errorsres55)/(len(llista_errorsres55))*100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

```

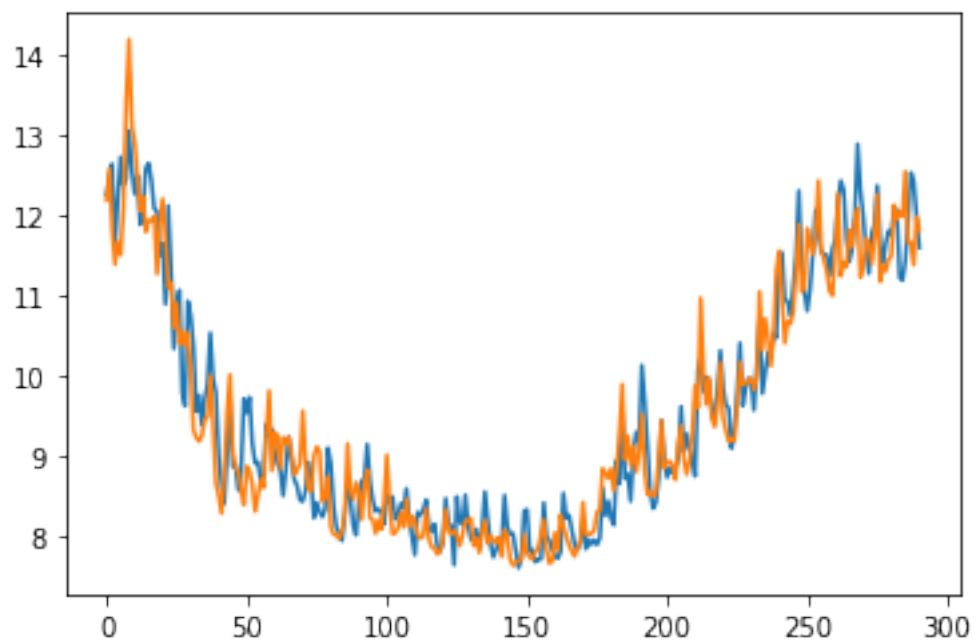
print("L'error mitjà a 1 dia és de {} % " .format(error_mitja1))
print("L'error mitjà a 2 dies és de {} % " .format(error_mitja2))
print("L'error mitjà a 3 dies és de {} % " .format(error_mitja3))
print("L'error mitjà a 4 dies és de {} % " .format(error_mitja4))
print("L'error mitjà a 5 dies és de {}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

print("L'error mitjà a 35 dies és de {} % " .format(error_mitja35))
print("L'error mitjà a 40 dies és de {} % " .format(error_mitja40))
print("L'error mitjà a 45 dies és de {} % " .format(error_mitja45))
print("L'error mitjà a 50 dies és de {} % " .format(error_mitja50))
print("L'error mitjà a 55 dies és de {} % " .format(error_mitja55))
print("L'error mitjà a 60 dies és de {} % " .format(error_mitja60))

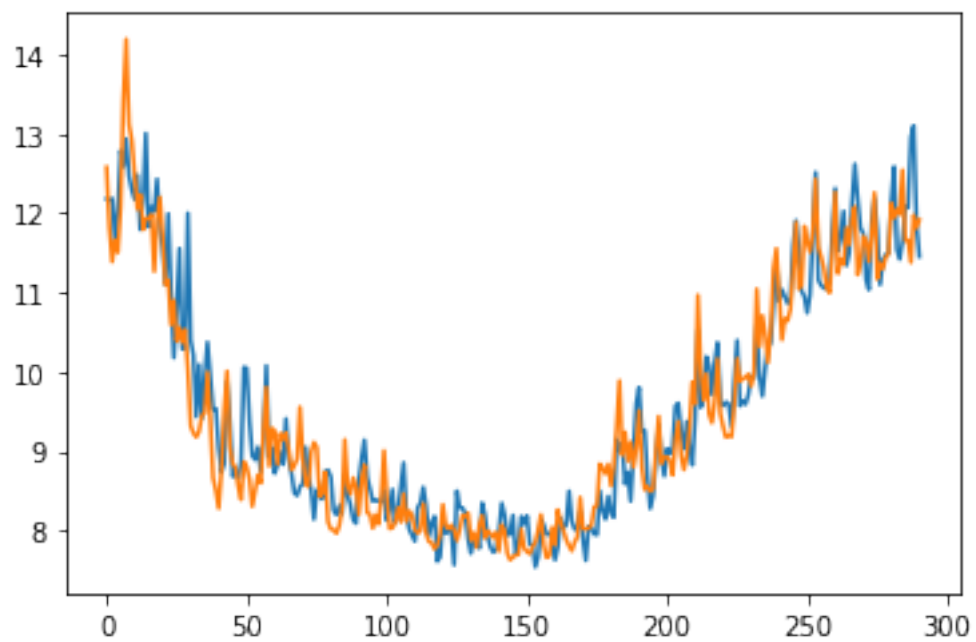
```



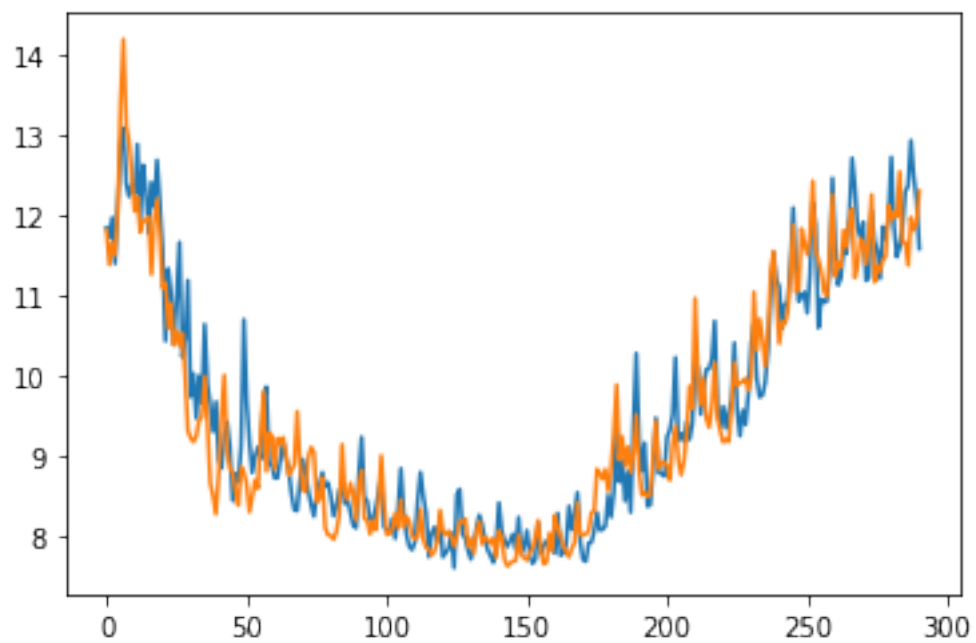
Predicció consum a 2 dies



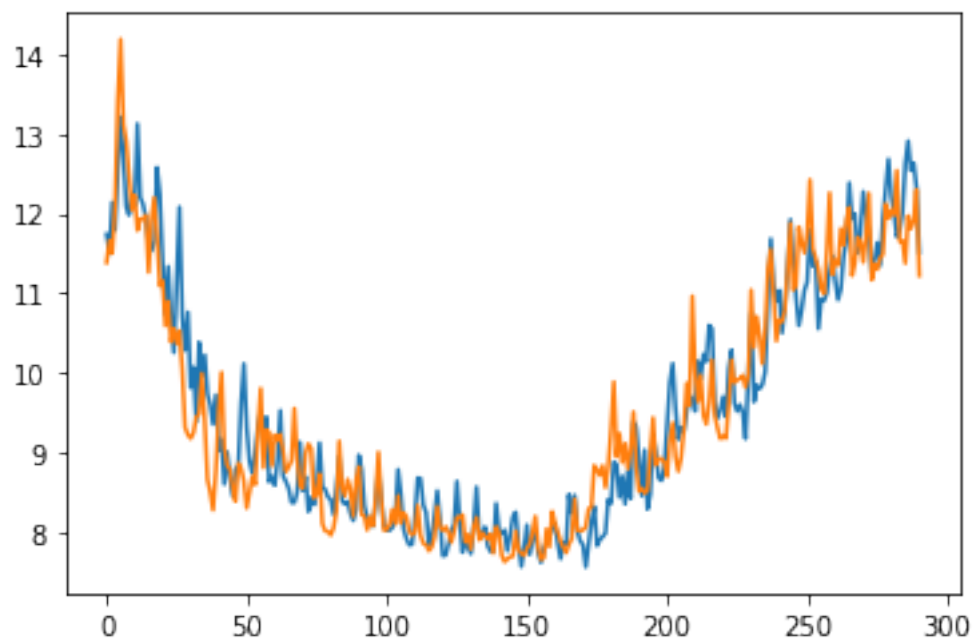
Predicció consum a 3 dies



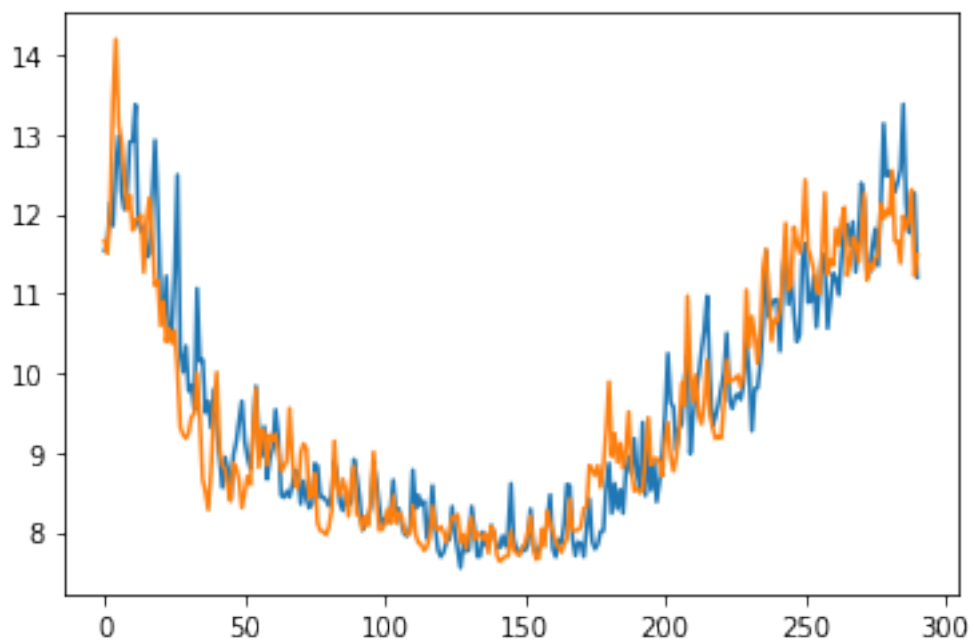
Predicció consum a 4 dies



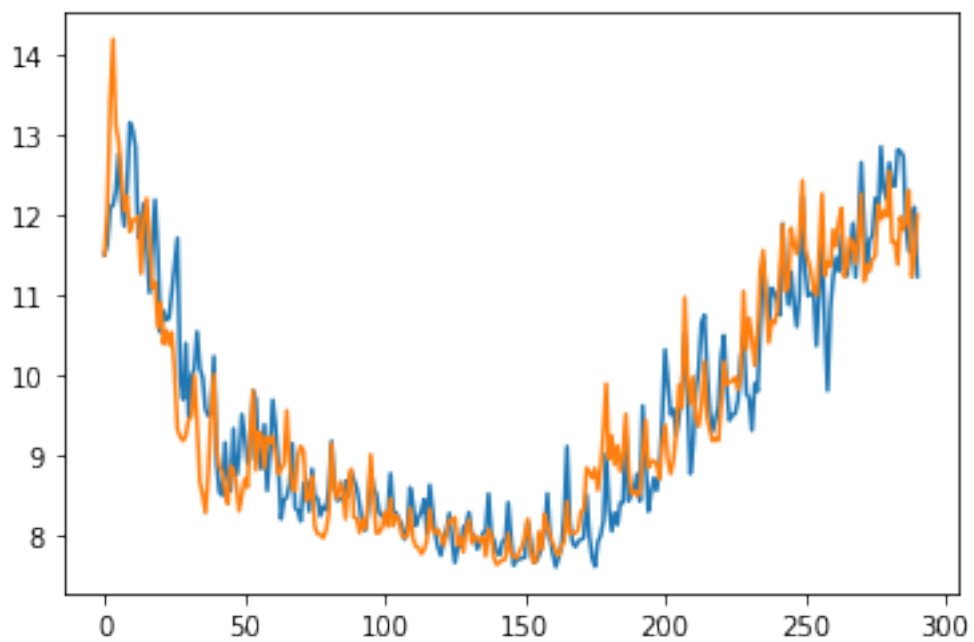
Predicció consum a 5 dies



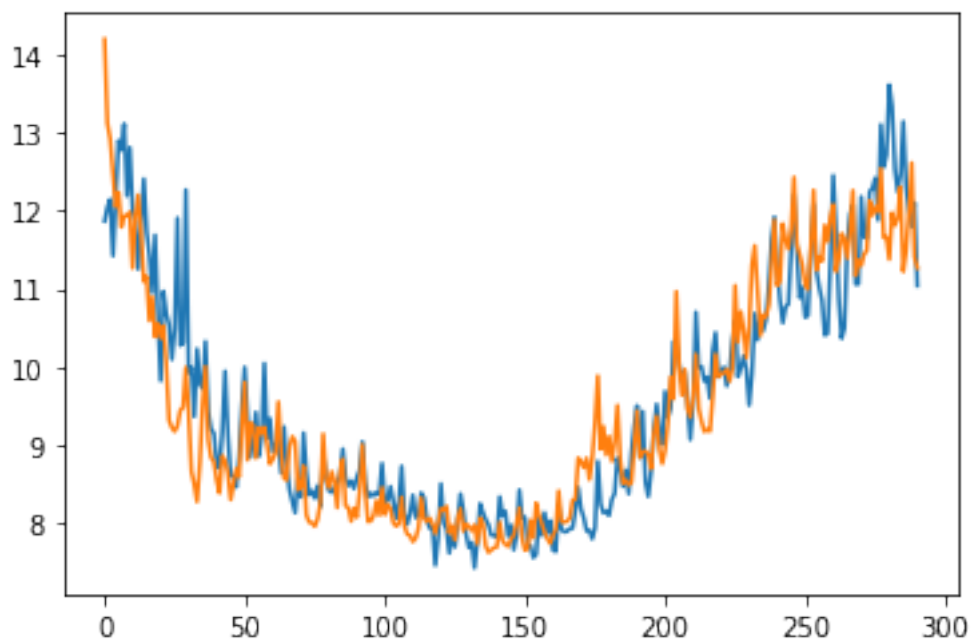
Predicció consum a 6 dies



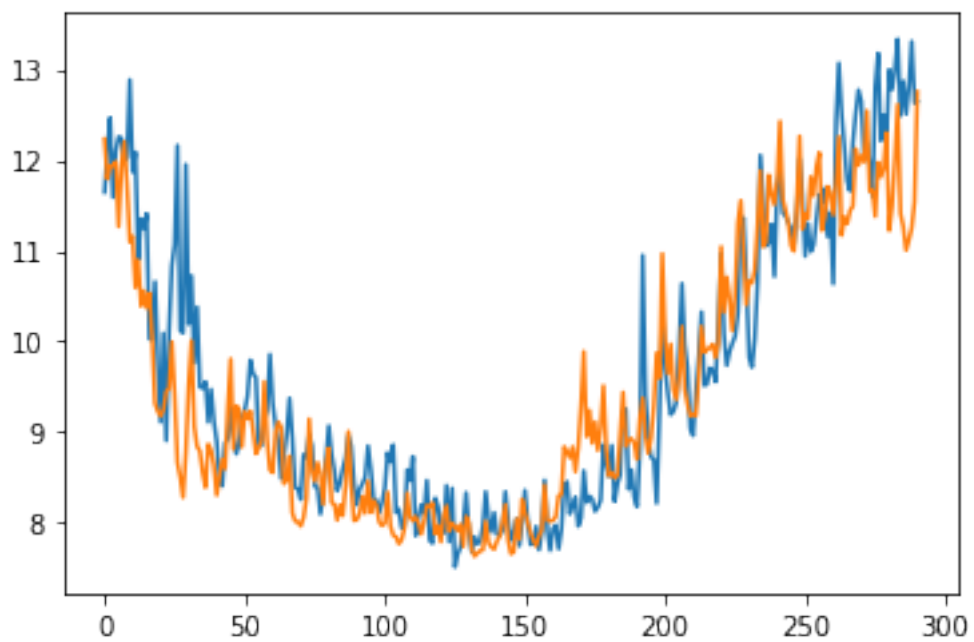
Predicció consum a 7 dies



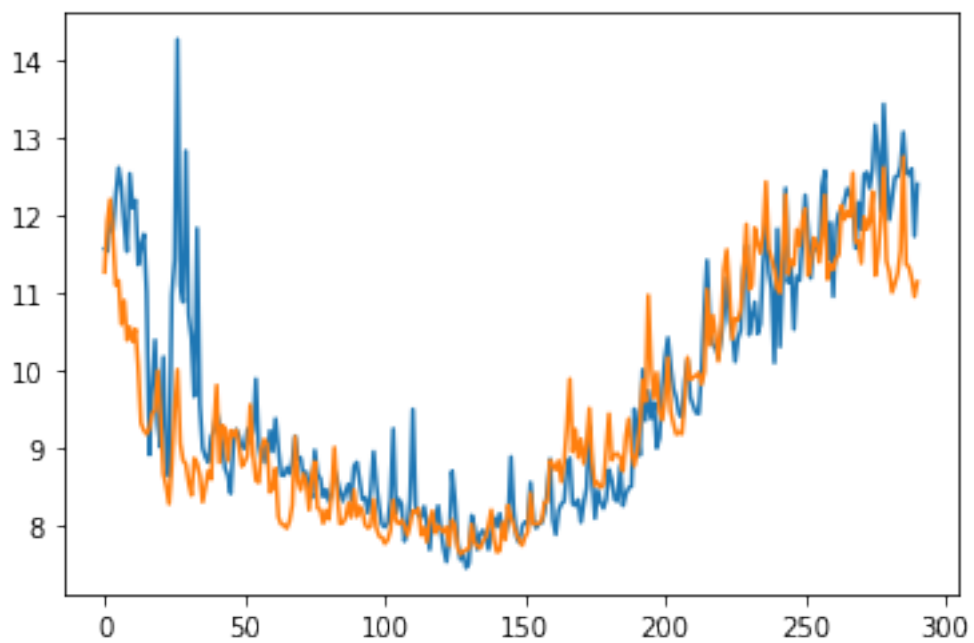
Predicció consum a 10 dies



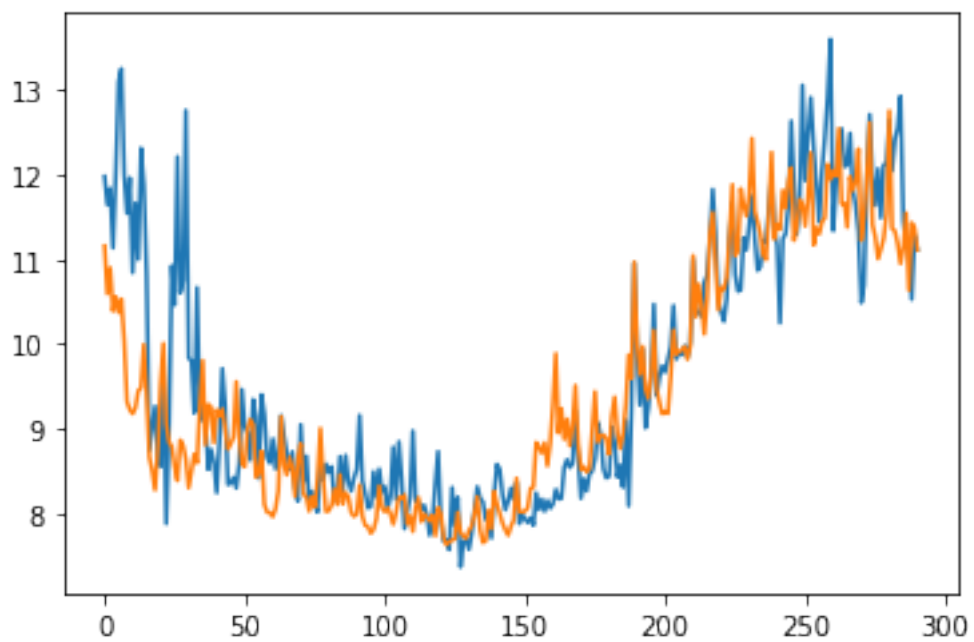
Predicció consum a 15 dies



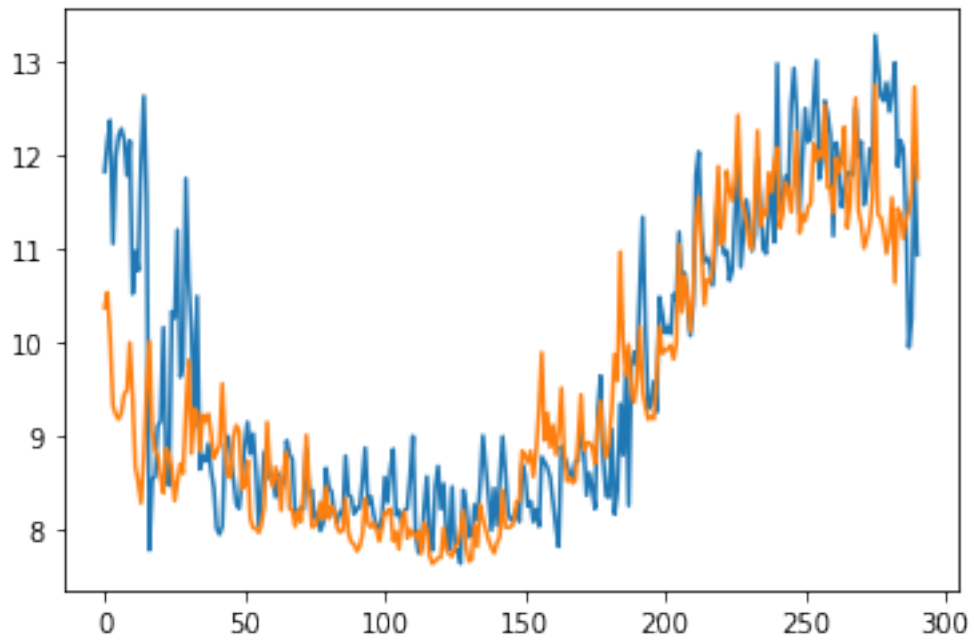
Predicció consum a 20 dies



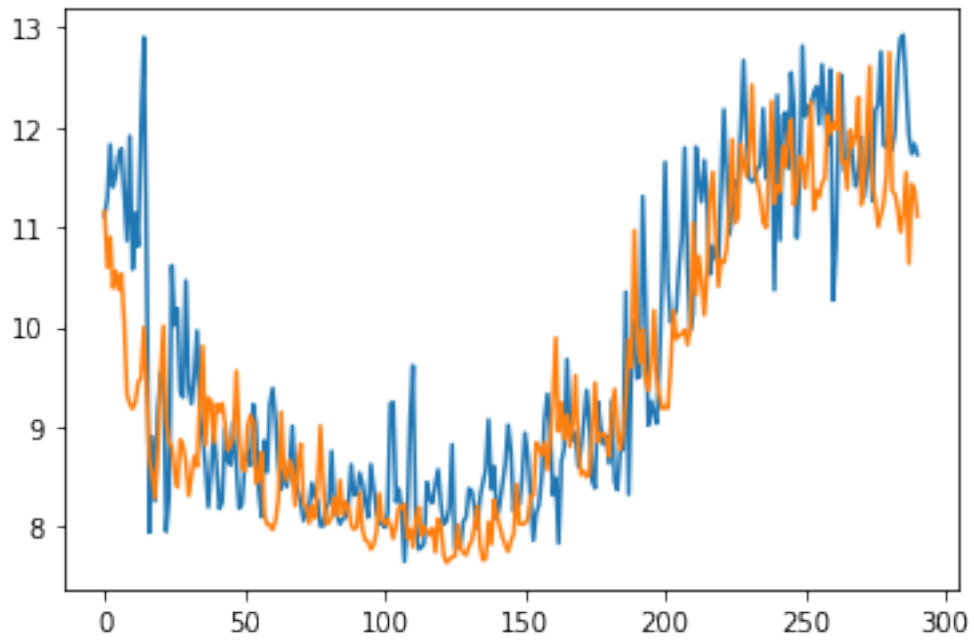
Predicció consum a 25 dies



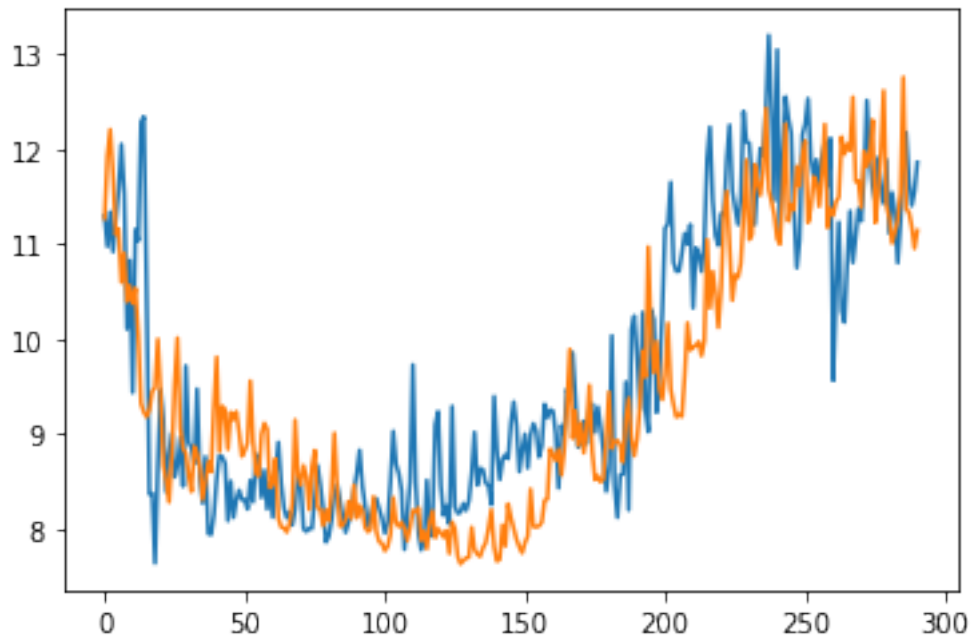
Predicció consum a 30 dies



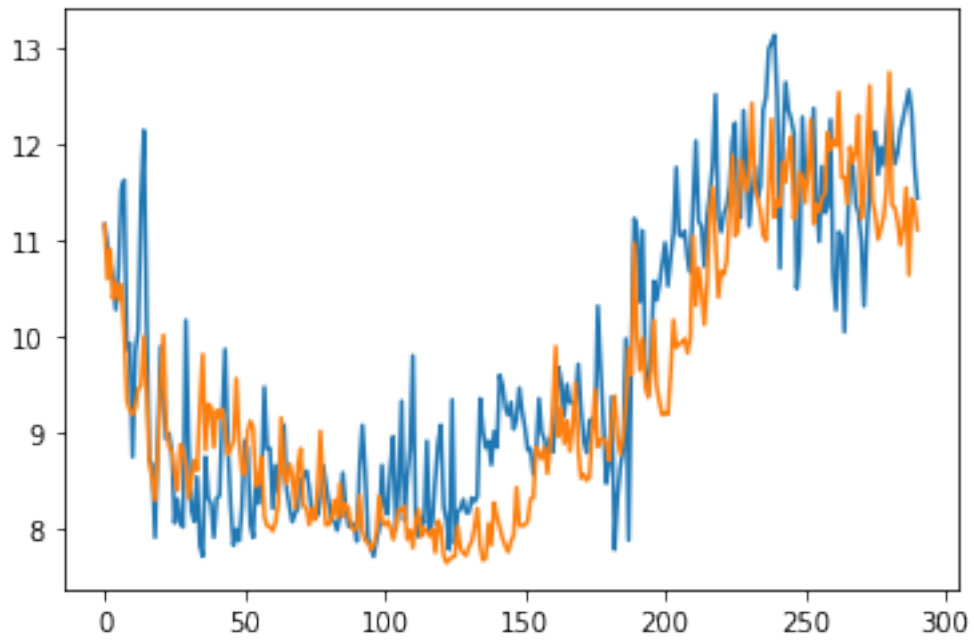
Predicció consum a 35 dies



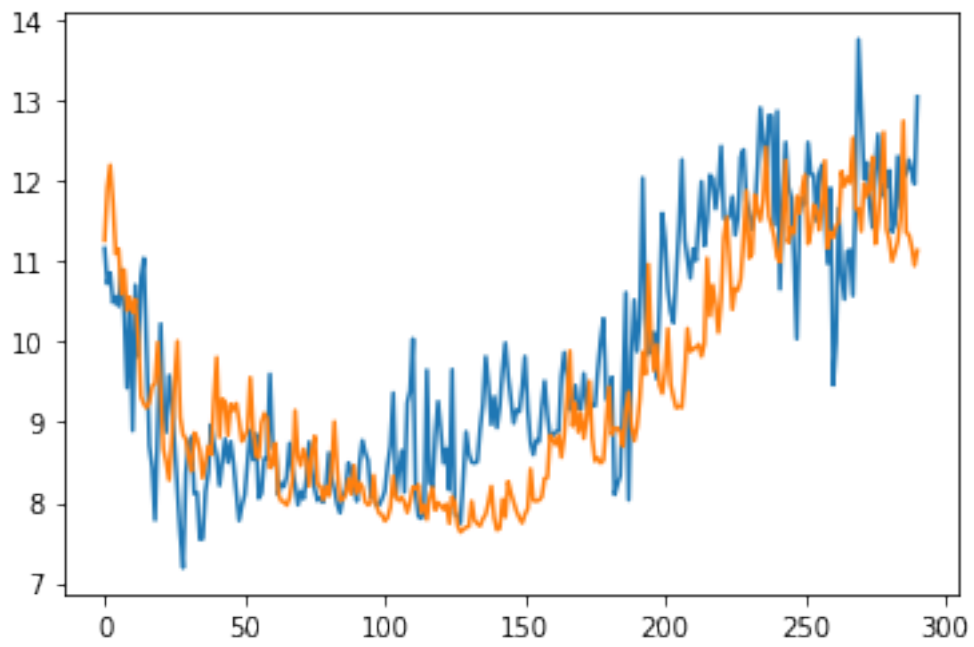
Predicció consum a 40 dies



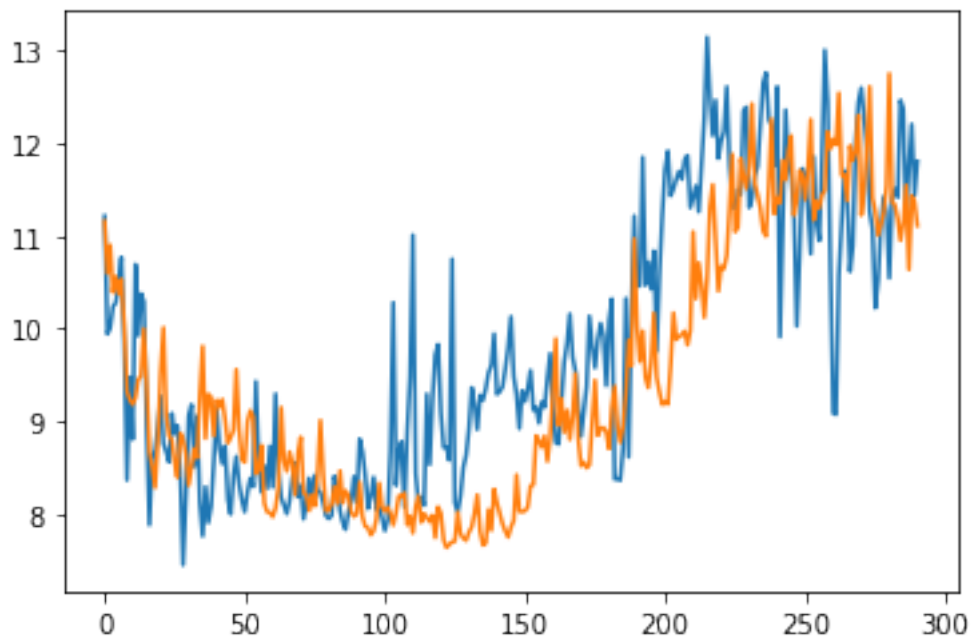
Predicció consum a 45 dies



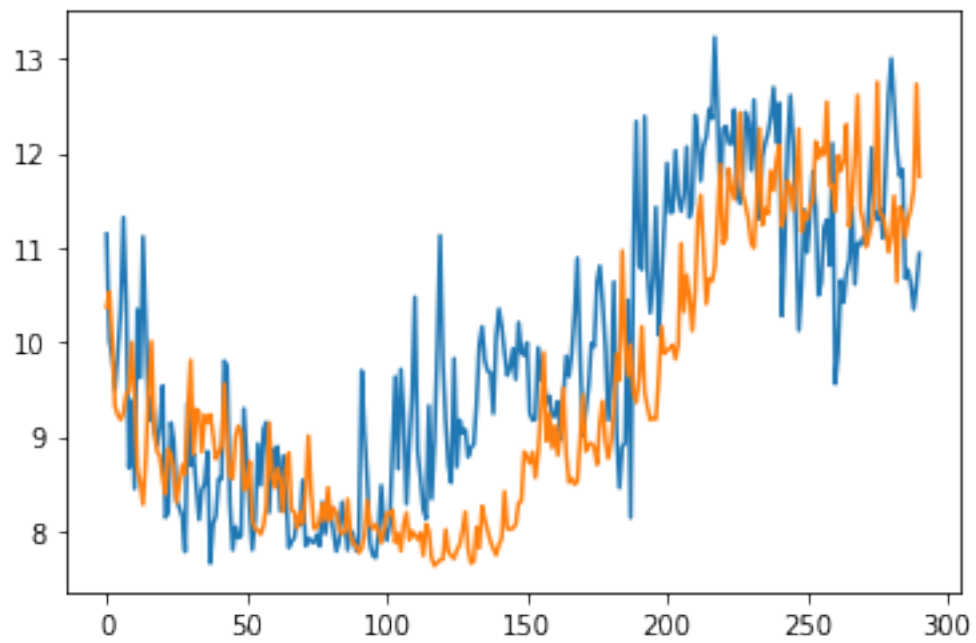
Predicció consum a 50 dies



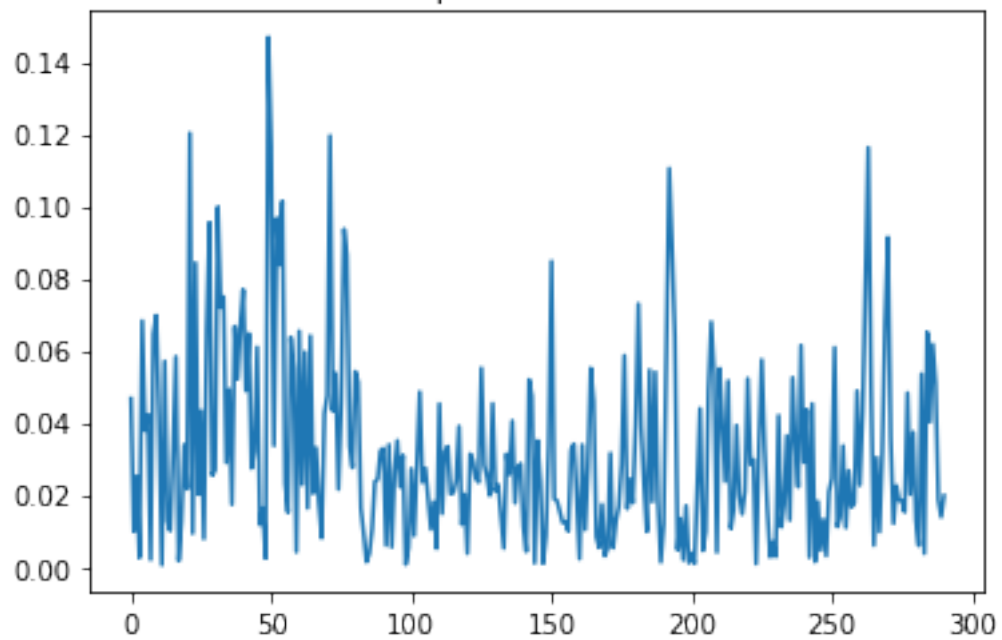
Predicció consum a 55 dies

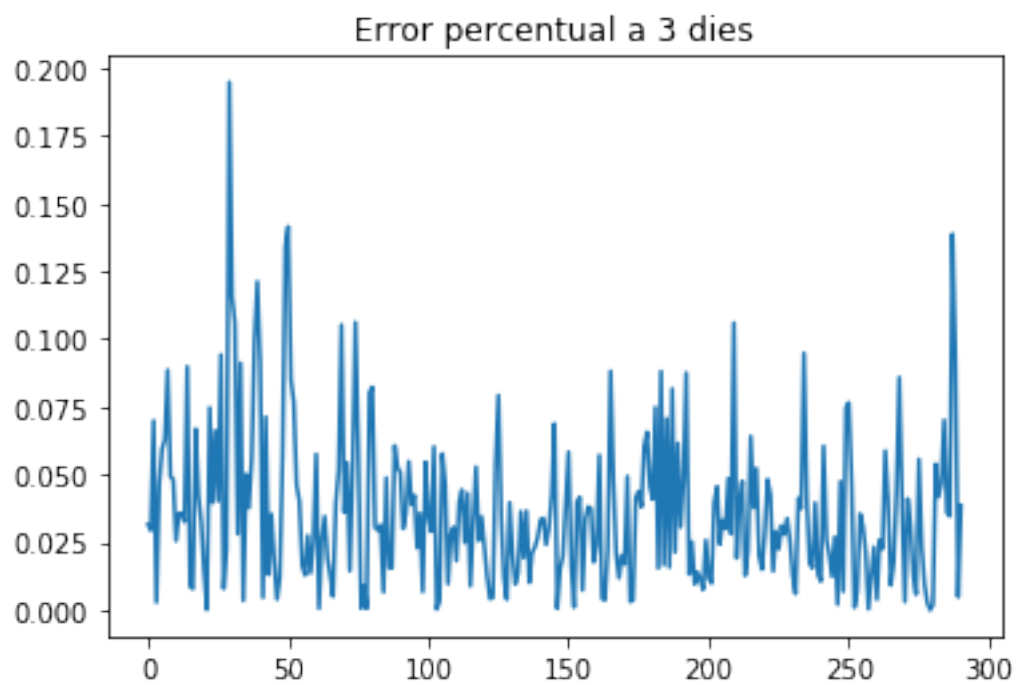
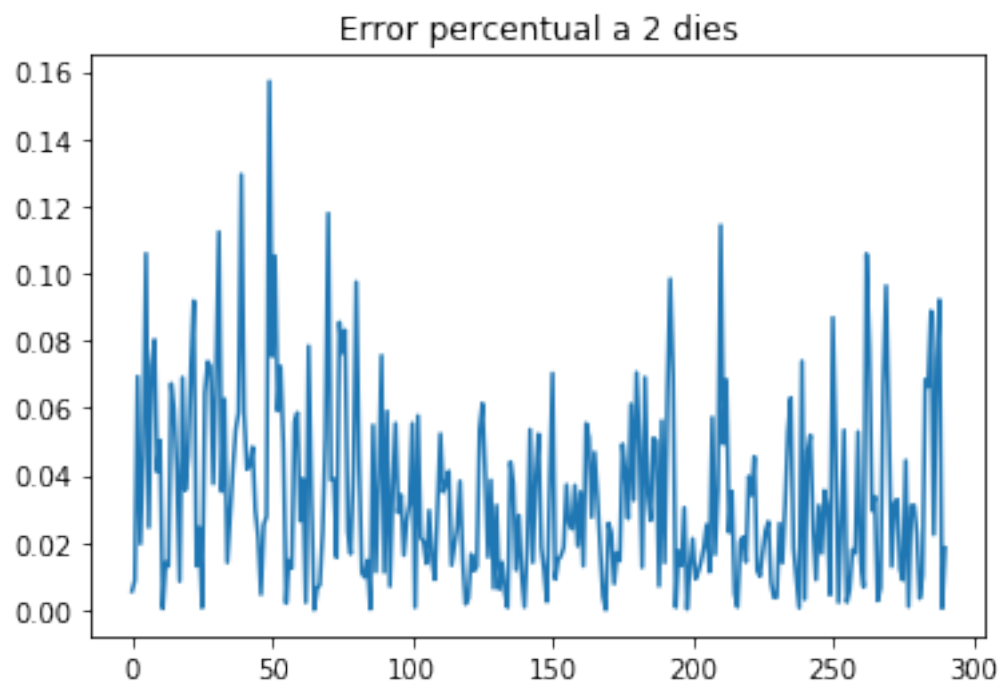


Predicció consum a 60 dies

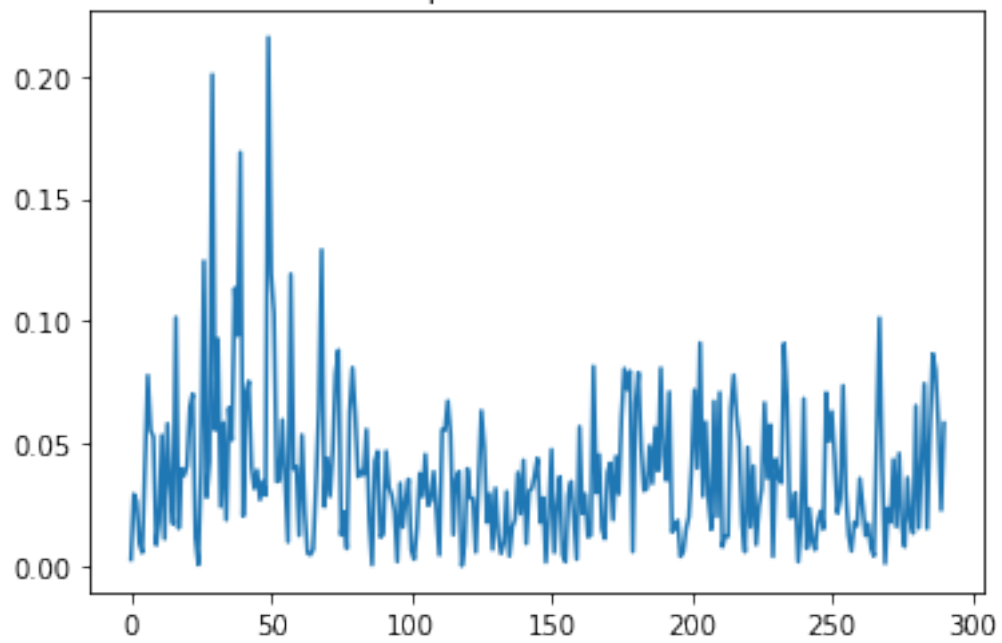


Error percentual a 1 dia

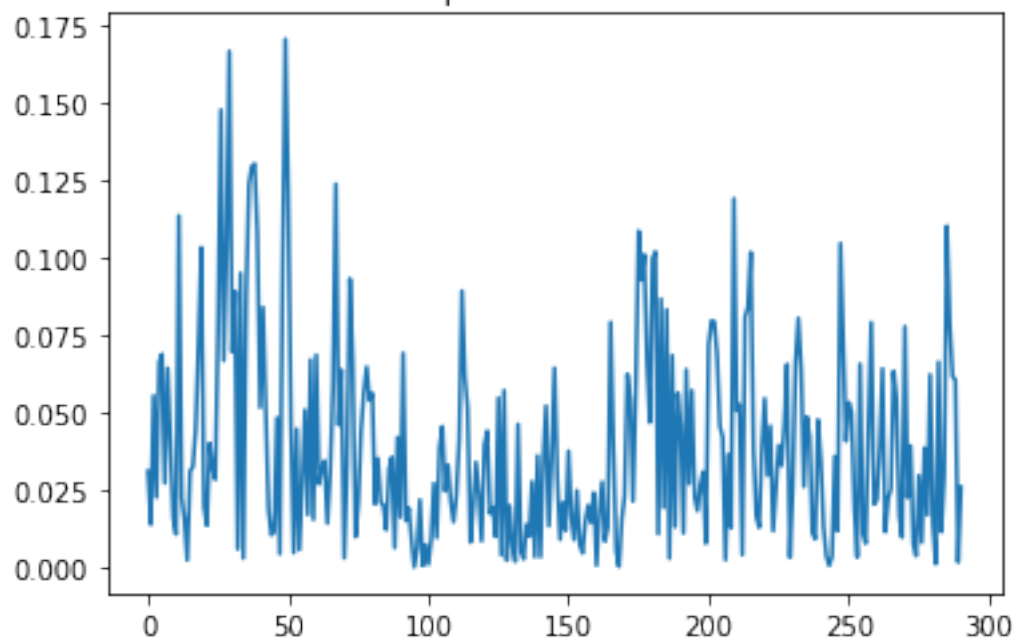


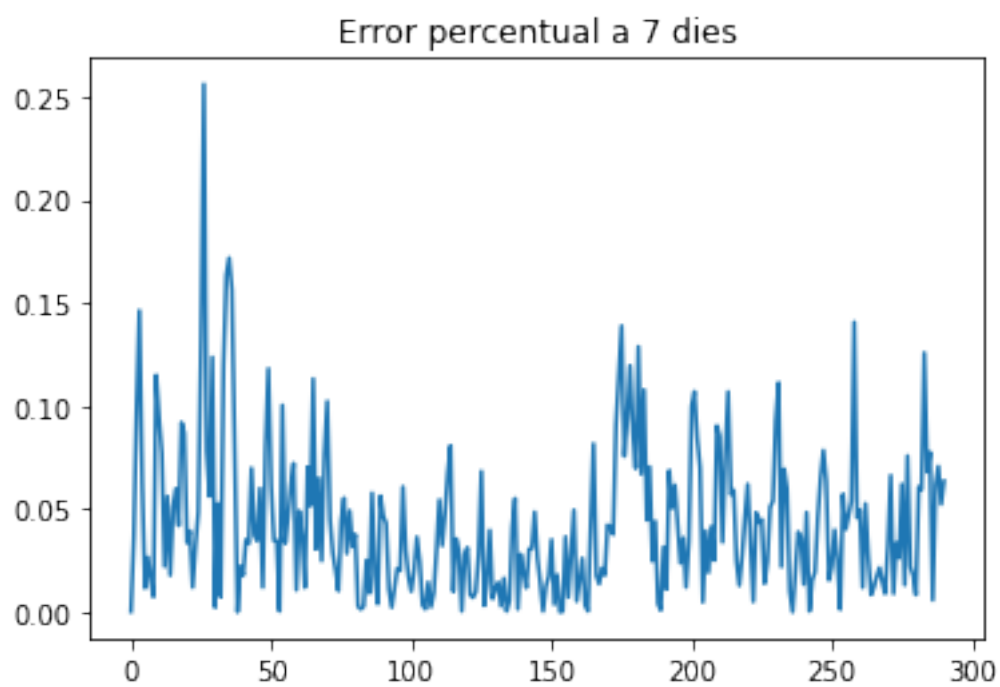
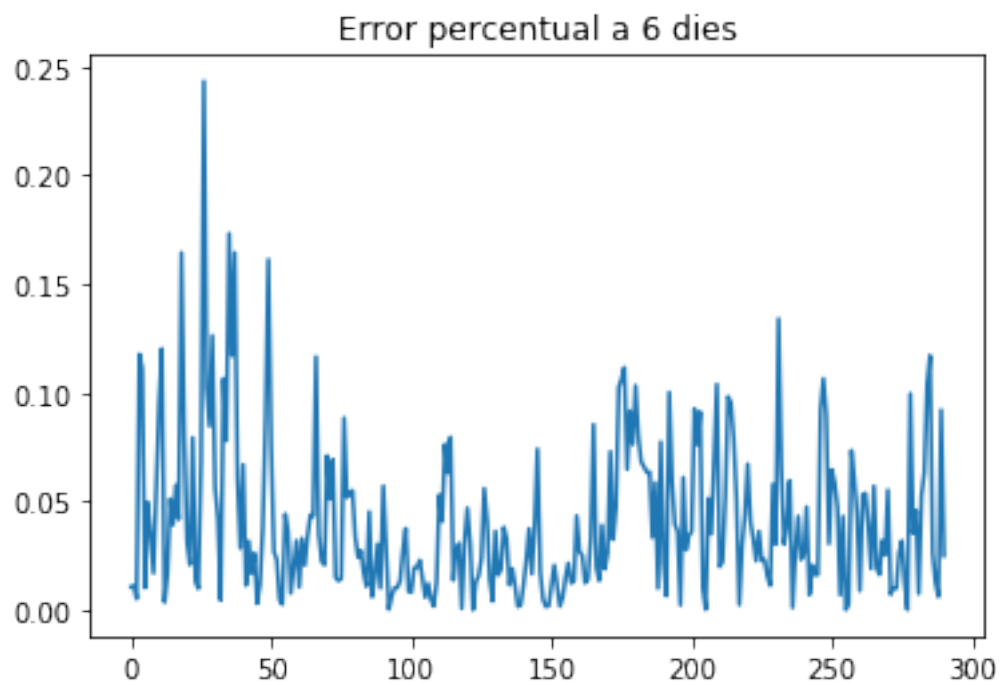


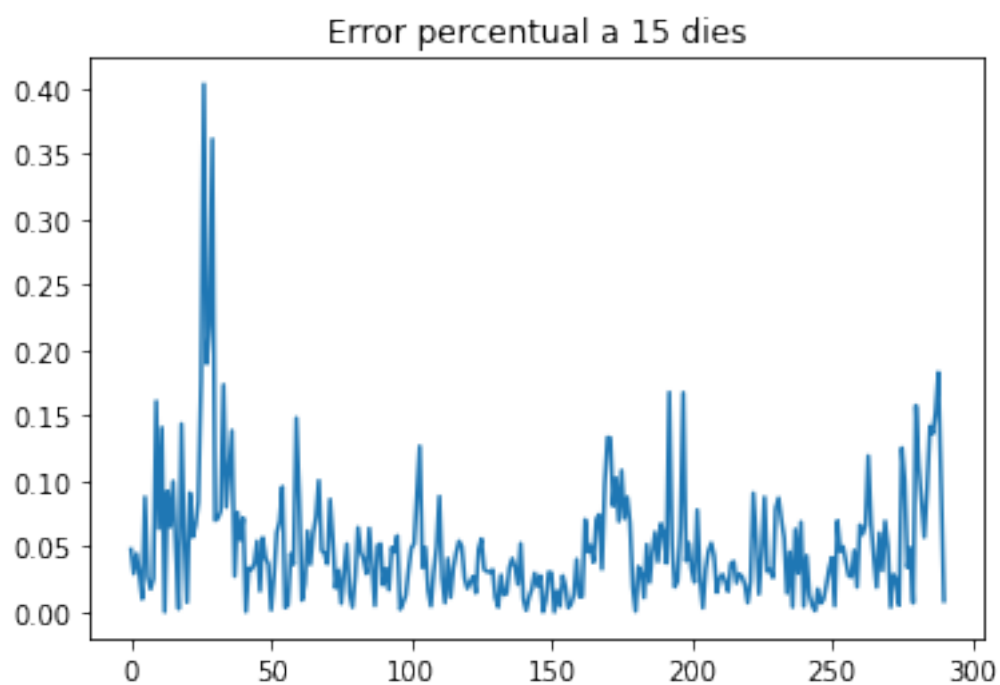
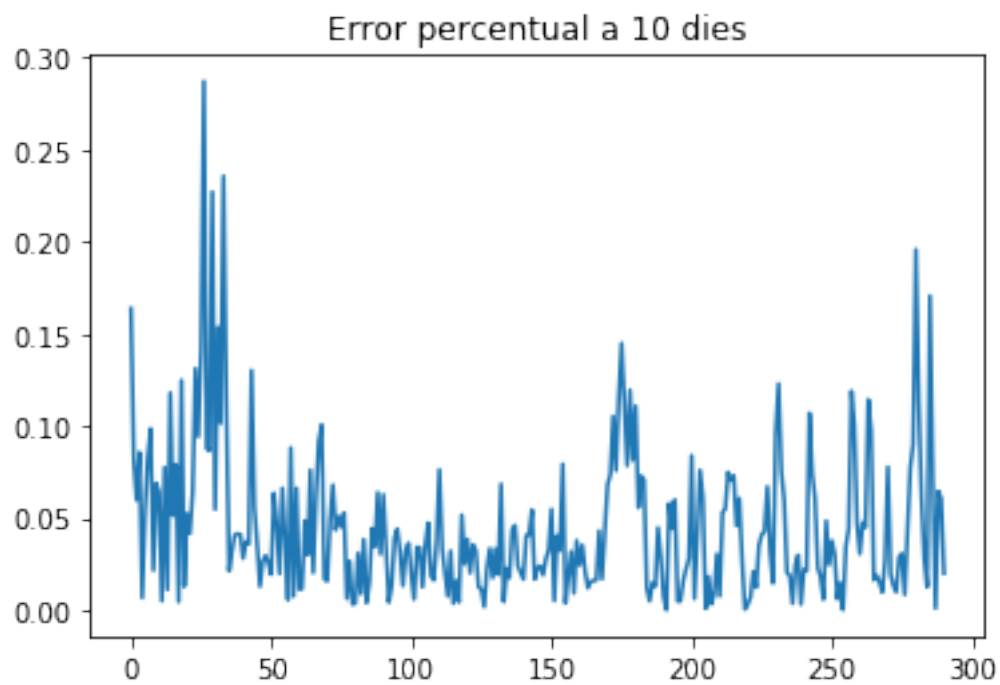
Error percentual a 4 dies



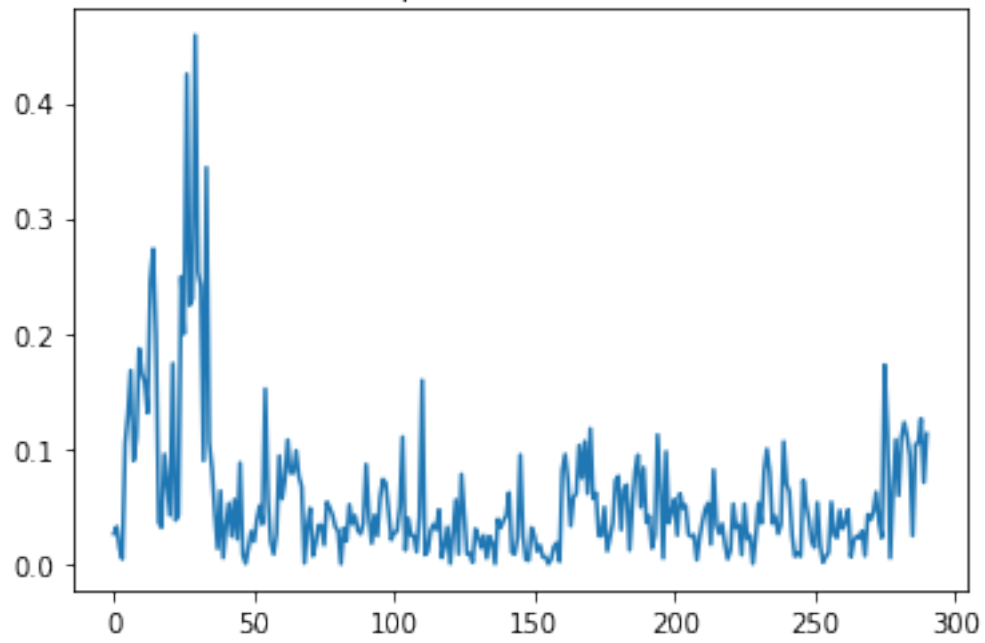
Error percentual a 5 dies



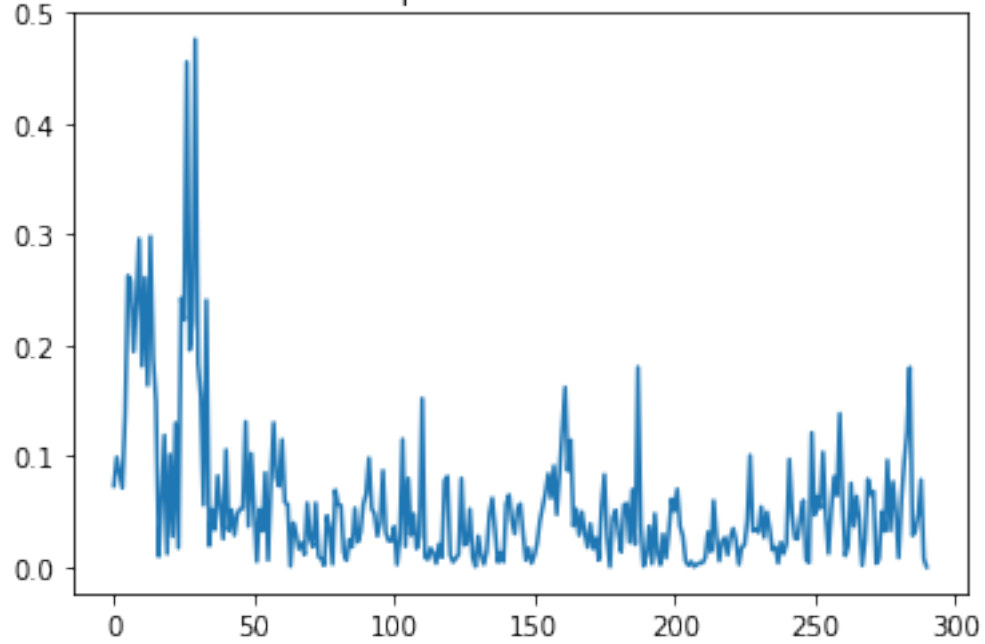




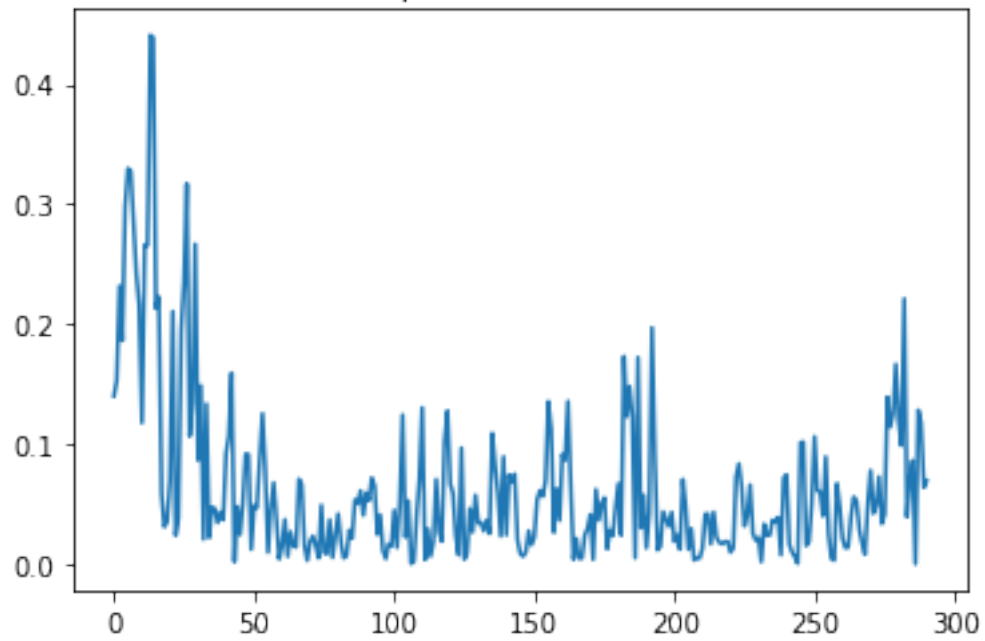
Error percentual a 20 dies



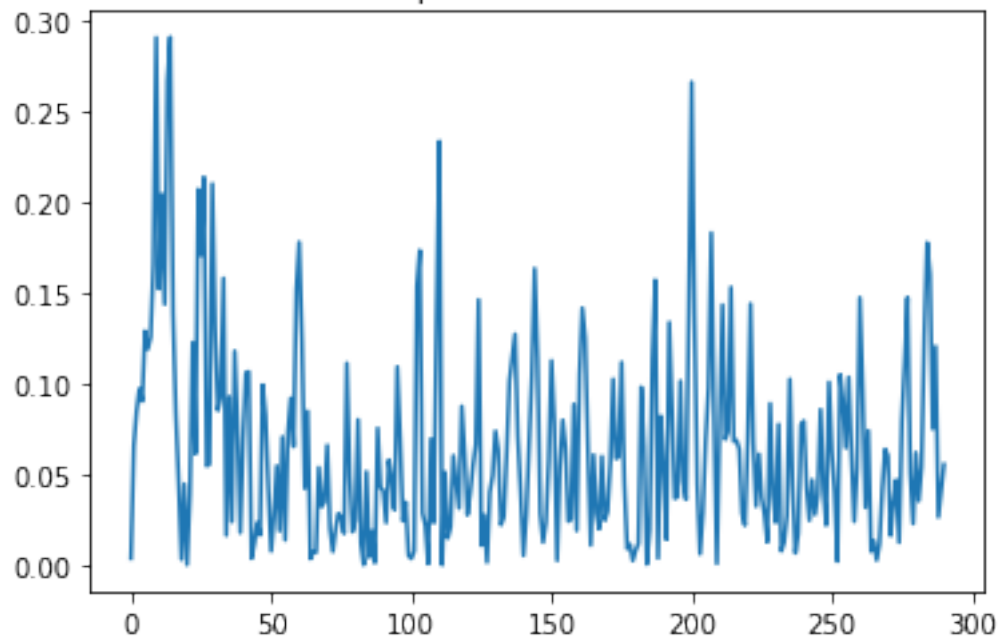
Error percentual a 25 dies

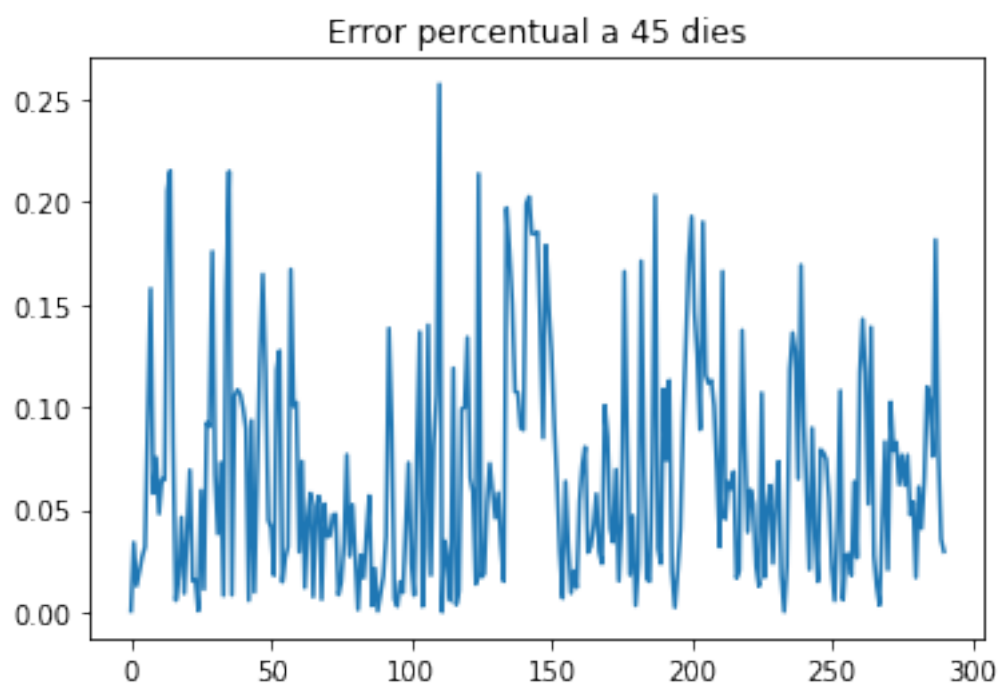
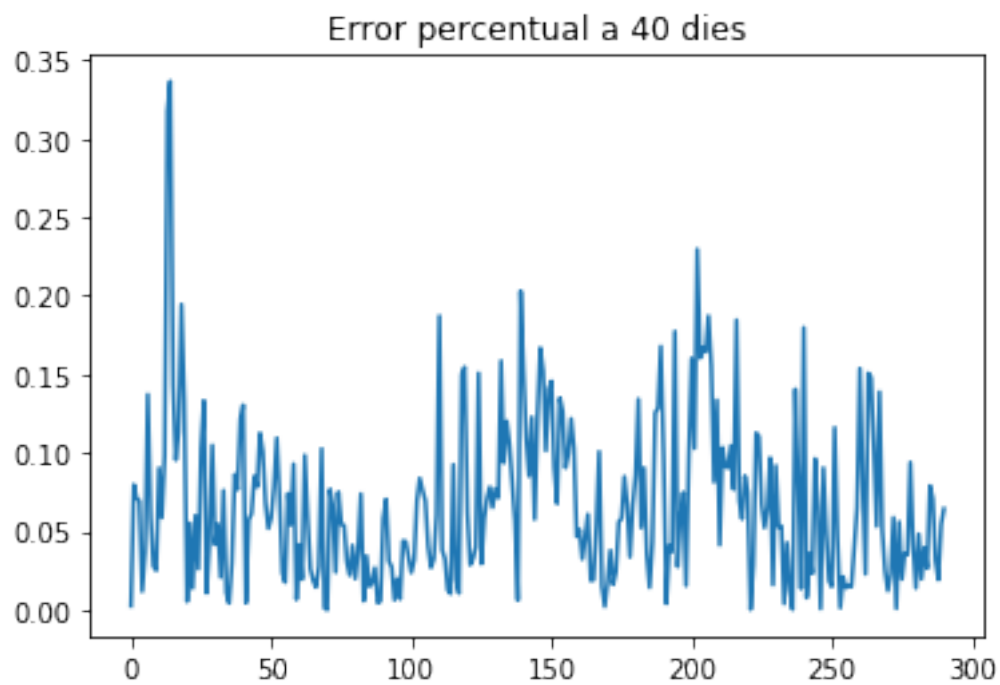


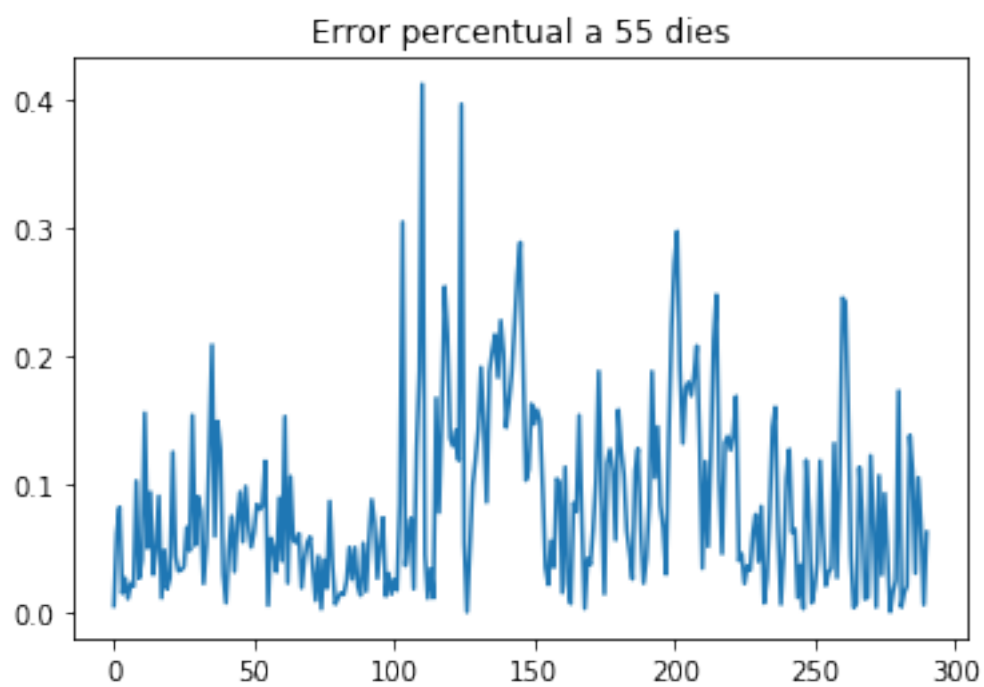
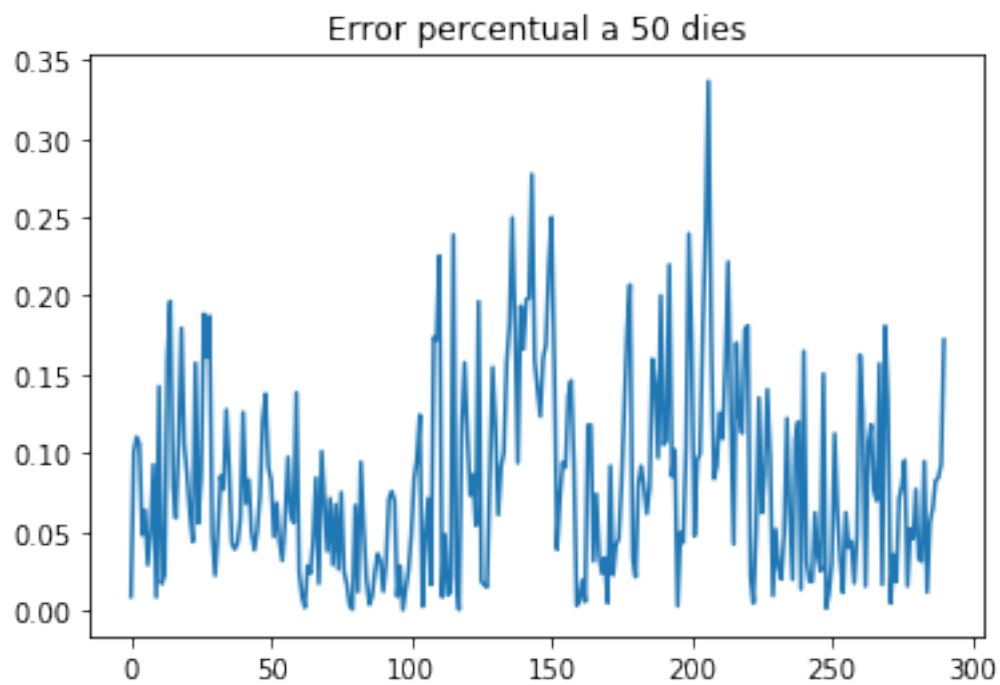
Error percentual a 30 dies

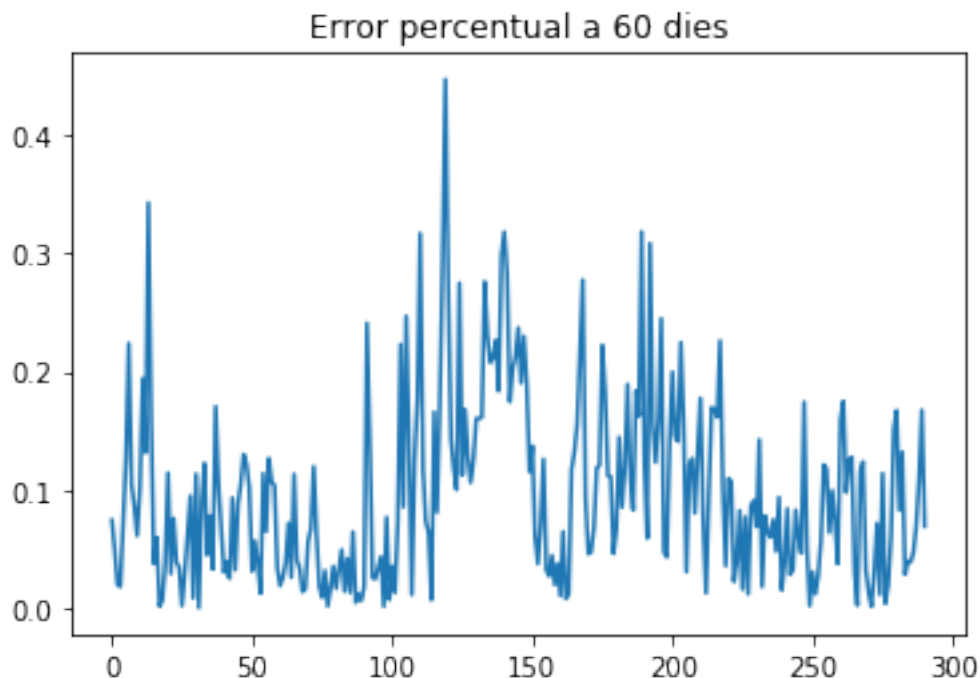


Error percentual a 35 dies









```

L'error mitjà a 1 dia és de 3.2269765896675553 %
L'error mitjà a 2 dies és de 3.4439064063941855 %
L'error mitjà a 3 dies és de 3.6711913643319716 %
L'error mitjà a 4 dies és de 3.7829875192103812 %
L'error mitjà a 5 dies és de 3.951424789673647 %
L'error mitjà a 6 dies és de 4.120618795467848 %
L'error mitjà a 7 dies és de 4.297009147206339 %
L'error mitjà a 10 dies és de 4.513654726238839 %
L'error mitjà a 15 dies és de 5.049189639509716 %
L'error mitjà a 20 dies és de 5.604116131921684 %
L'error mitjà a 25 dies és de 5.708291719831363 %
L'error mitjà a 30 dies és de 6.352893822113277 %
L'error mitjà a 35 dies és de 6.564774591495934 %
L'error mitjà a 40 dies és de 6.74872864798812 %
L'error mitjà a 45 dies és de 6.720113138640084 %
L'error mitjà a 50 dies és de 8.294681290687343 %
L'error mitjà a 55 dies és de 8.577243606043028 %
L'error mitjà a 60 dies és de 9.71099008784458 %

```

```
In [30]: (error_mitja1+error_mitja2+error_mitja3+error_mitja4+error_mitja5+error_mitja6+error_r
```

```
Out[30]: 6.278711545596276
```

```
In [ ]:
```