

# MM3c \_Xarxa\_walkforard\_normalitzat\_multivariate2\_MULTISTEP60\_tempm walkforwardaugment-Copy4

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 [9]: daily=pd.read_csv('C:/Users/Laura/Desktop/Smart meters London/workspace R/Dades netes/1
daily.head(5)
```

```
Out[9]:
```

	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 [10]: #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)
```

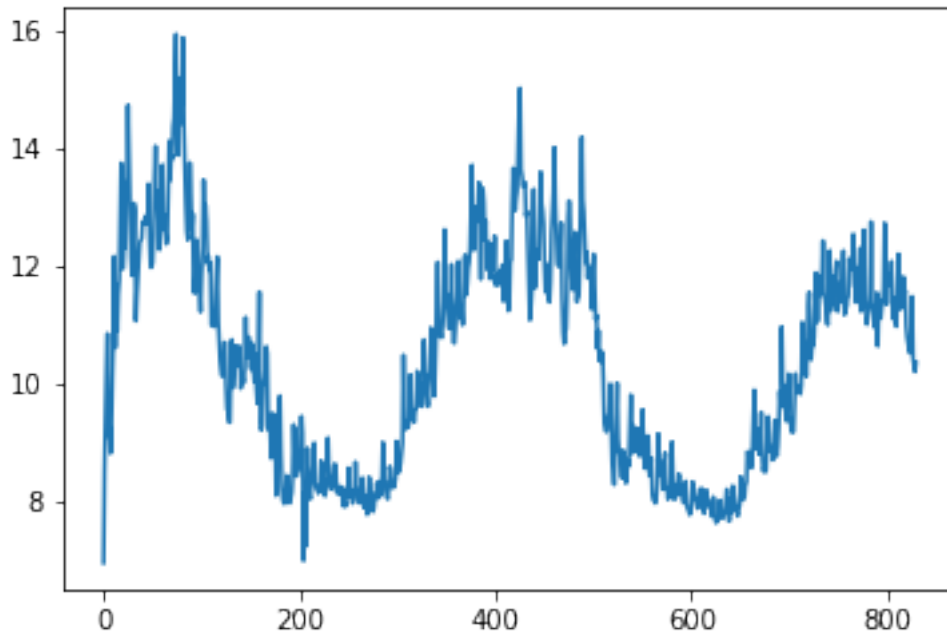
```
Out[10]:
```

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

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

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

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



```
In [11]: daily_dia.season[daily_dia.season=='summer']=1
         daily_dia.season[daily_dia.season=='spring']=2
         daily_dia.season[daily_dia.season=='autumn']=3
         daily_dia.season[daily_dia.season=='winter']=4
```

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

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

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

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/indexing.html>  
 This is separate from the ipykernel package so we can avoid doing imports until  
 c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel\_launcher.py:  
A value is trying to be set on a copy of a slice from a DataFrame

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

```

In [12]: 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)
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)

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daily_dia['y+49']=daily_dia['energy_sum'].shift(-49)
daily_dia['y+50']=daily_dia['energy_sum'].shift(-50)
daily_dia['y+51']=daily_dia['energy_sum'].shift(-51)
daily_dia['y+52']=daily_dia['energy_sum'].shift(-52)
daily_dia['y+53']=daily_dia['energy_sum'].shift(-53)
daily_dia['y+54']=daily_dia['energy_sum'].shift(-54)
daily_dia['y+55']=daily_dia['energy_sum'].shift(-55)
daily_dia['y+56']=daily_dia['energy_sum'].shift(-56)
daily_dia['y+57']=daily_dia['energy_sum'].shift(-57)
daily_dia['y+58']=daily_dia['energy_sum'].shift(-58)
daily_dia['y+59']=daily_dia['energy_sum'].shift(-59)
daily_dia['y+60']=daily_dia['energy_sum'].shift(-60)

```

```

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

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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)

```

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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['season(t-1)']=daily_dia['season'].shift(1)
daily_dia['season(t-2)']=daily_dia['season'].shift(2)
daily_dia['season(t-3)']=daily_dia['season'].shift(3)
daily_dia['season(t-4)']=daily_dia['season'].shift(4)
daily_dia['season(t-5)']=daily_dia['season'].shift(5)
daily_dia['season(t-6)']=daily_dia['season'].shift(6)

```

```

daily_dia['season(t-7)']=daily_dia['season'].shift(7)
daily_dia['season(t-8)']=daily_dia['season'].shift(8)
daily_dia['season(t-9)']=daily_dia['season'].shift(9)
daily_dia['season(t-10)']=daily_dia['season'].shift(10)
daily_dia['season(t-11)']=daily_dia['season'].shift(11)
daily_dia['season(t-12)']=daily_dia['season'].shift(12)
daily_dia['season(t-13)']=daily_dia['season'].shift(13)
daily_dia['season(t-14)']=daily_dia['season'].shift(14)

```

daily\_dia

```

Out[12]:

```

	index	date	energy_sum	apparentTemperatureMax	\
0	735	2011-11-23	6.952692	10.36	
1	736	2011-11-24	8.536480	12.93	
2	682	2011-11-25	9.499781	13.03	
3	713	2011-11-26	10.267707	12.96	
4	609	2011-11-27	10.850805	13.54	
5	641	2011-11-28	9.103382	12.58	
6	265	2011-11-29	9.274873	13.47	
7	571	2011-11-30	8.813513	11.87	
8	199	2011-12-01	9.227707	12.15	
9	338	2011-12-02	10.145910	5.33	
10	131	2011-12-03	10.780273	11.42	
11	100	2011-12-04	12.163127	6.66	
12	176	2011-12-05	10.609714	3.13	
13	203	2011-12-06	11.673417	3.77	
14	240	2011-12-07	10.889362	5.14	
15	299	2011-12-08	11.525150	12.89	
16	294	2011-12-09	11.759837	3.99	
17	455	2011-12-10	12.633801	3.14	
18	215	2011-12-11	13.749174	5.72	
19	115	2011-12-12	11.951958	5.94	
20	22	2011-12-13	11.957446	12.08	
21	45	2011-12-14	12.392776	2.88	
22	59	2011-12-15	12.307079	4.38	
23	11	2011-12-16	13.376080	0.99	
24	228	2011-12-17	13.511968	1.72	
25	478	2011-12-18	14.732271	1.98	
26	412	2011-12-19	13.774471	4.02	
27	433	2011-12-20	12.709106	4.98	
28	524	2011-12-21	12.148570	12.14	
29	689	2011-12-22	11.839403	12.14	
...	...	...	...	...	
800	41	2014-01-29	11.800777	2.53	
801	105	2014-01-30	11.685169	5.86	
802	80	2014-01-31	11.857957	5.27	

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

	apparentTemperatureMin	humidity	weekday	season	y+1	y+2	\
0	2.18	0.93	3	3	8.536480	9.499781	
1	7.01	0.89	4	3	9.499781	10.267707	
2	4.84	0.79	5	3	10.267707	10.850805	
3	4.69	0.81	6	3	10.850805	9.103382	
4	2.94	0.72	7	3	9.103382	9.274873	
5	1.31	0.86	1	3	9.274873	8.813513	
6	3.39	0.82	2	3	8.813513	9.227707	
7	3.34	0.78	3	3	9.227707	10.145910	
8	5.29	0.82	4	3	10.145910	10.780273	
9	0.46	0.87	5	3	10.780273	12.163127	
10	4.71	0.79	6	3	12.163127	10.609714	
11	1.03	0.82	7	3	10.609714	11.673417	
12	-1.69	0.77	1	3	11.673417	10.889362	
13	-1.61	0.83	2	3	10.889362	11.525150	
14	0.94	0.68	3	3	11.525150	11.759837	
15	0.63	0.81	4	3	11.759837	12.633801	
16	-1.42	0.71	5	3	12.633801	13.749174	
17	-3.42	0.81	6	3	13.749174	11.951958	
18	0.11	0.88	7	3	11.951958	11.957446	



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

	...	season(t-5)	season(t-6)	season(t-7)	season(t-8)	season(t-9)	\
0	...	NaN	NaN	NaN	NaN	NaN	
1	...	NaN	NaN	NaN	NaN	NaN	
2	...	NaN	NaN	NaN	NaN	NaN	
3	...	NaN	NaN	NaN	NaN	NaN	

4	...	NaN	NaN	NaN	NaN	NaN
5	...	3	NaN	NaN	NaN	NaN
6	...	3	3	NaN	NaN	NaN
7	...	3	3	3	NaN	NaN
8	...	3	3	3	3	NaN
9	...	3	3	3	3	3
10	...	3	3	3	3	3
11	...	3	3	3	3	3
12	...	3	3	3	3	3
13	...	3	3	3	3	3
14	...	3	3	3	3	3
15	...	3	3	3	3	3
16	...	3	3	3	3	3
17	...	3	3	3	3	3
18	...	3	3	3	3	3
19	...	3	3	3	3	3
20	...	3	3	3	3	3
21	...	3	3	3	3	3
22	...	3	3	3	3	3
23	...	3	3	3	3	3
24	...	3	3	3	3	3
25	...	3	3	3	3	3
26	...	3	3	3	3	3
27	...	3	3	3	3	3
28	...	3	3	3	3	3
29	...	3	3	3	3	3
..	...	...	...	...	...	...
800	...	4	4	4	4	4
801	...	4	4	4	4	4
802	...	4	4	4	4	4
803	...	4	4	4	4	4
804	...	4	4	4	4	4
805	...	4	4	4	4	4
806	...	4	4	4	4	4
807	...	4	4	4	4	4
808	...	4	4	4	4	4
809	...	4	4	4	4	4
810	...	4	4	4	4	4
811	...	4	4	4	4	4
812	...	4	4	4	4	4
813	...	4	4	4	4	4
814	...	4	4	4	4	4
815	...	4	4	4	4	4
816	...	4	4	4	4	4
817	...	4	4	4	4	4
818	...	4	4	4	4	4
819	...	4	4	4	4	4
820	...	4	4	4	4	4

821	...	4	4	4	4	4
822	...	4	4	4	4	4
823	...	4	4	4	4	4
824	...	4	4	4	4	4
825	...	4	4	4	4	4
826	...	4	4	4	4	4
827	...	4	4	4	4	4
828	...	4	4	4	4	4
829	...	4	4	4	4	4

	season(t-10)	season(t-11)	season(t-12)	season(t-13)	season(t-14)
0	NaN	NaN	NaN	NaN	NaN
1	NaN	NaN	NaN	NaN	NaN
2	NaN	NaN	NaN	NaN	NaN
3	NaN	NaN	NaN	NaN	NaN
4	NaN	NaN	NaN	NaN	NaN
5	NaN	NaN	NaN	NaN	NaN
6	NaN	NaN	NaN	NaN	NaN
7	NaN	NaN	NaN	NaN	NaN
8	NaN	NaN	NaN	NaN	NaN
9	NaN	NaN	NaN	NaN	NaN
10	3	NaN	NaN	NaN	NaN
11	3	3	NaN	NaN	NaN
12	3	3	3	NaN	NaN
13	3	3	3	3	NaN
14	3	3	3	3	3
15	3	3	3	3	3
16	3	3	3	3	3
17	3	3	3	3	3
18	3	3	3	3	3
19	3	3	3	3	3
20	3	3	3	3	3
21	3	3	3	3	3
22	3	3	3	3	3
23	3	3	3	3	3
24	3	3	3	3	3
25	3	3	3	3	3
26	3	3	3	3	3
27	3	3	3	3	3
28	3	3	3	3	3
29	3	3	3	3	3
..	...	...	...	...	...
800	4	4	4	4	4
801	4	4	4	4	4
802	4	4	4	4	4
803	4	4	4	4	4
804	4	4	4	4	4
805	4	4	4	4	4

806	4	4	4	4	4
807	4	4	4	4	4
808	4	4	4	4	4
809	4	4	4	4	4
810	4	4	4	4	4
811	4	4	4	4	4
812	4	4	4	4	4
813	4	4	4	4	4
814	4	4	4	4	4
815	4	4	4	4	4
816	4	4	4	4	4
817	4	4	4	4	4
818	4	4	4	4	4
819	4	4	4	4	4
820	4	4	4	4	4
821	4	4	4	4	4
822	4	4	4	4	4
823	4	4	4	4	4
824	4	4	4	4	4
825	4	4	4	4	4
826	4	4	4	4	4
827	4	4	4	4	4
828	4	4	4	4	4
829	4	4	4	4	4

[830 rows x 152 columns]

```
In [13]: #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','apparentTemperatureMin'])
daily_dia.head(5)
```

```
Out[13]:
```

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

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

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

1	NaN	NaN	NaN	NaN	NaN
2	NaN	NaN	NaN	NaN	NaN
3	NaN	NaN	NaN	NaN	NaN
4	NaN	NaN	NaN	NaN	NaN

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

[5 rows x 145 columns]

In [14]: *#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[14]:
```

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

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

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

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

[5 rows x 145 columns]

```
In [15]: daily_dia=daily_dia.drop([829,828,827,826,825,824,823, 822,821,820,819,818,817,816,815,814,813,812,811,810,809,808,807,806,805,804,803,802,801,800,799,798,797,796,795,794,793,792,791,790,789,788,787,786,785,784,783,782,781,780,779,778,777,776,775,774,773,772,771,770,769,768,767,766,765,764,763,762,761,760,759,758,757,756,755,754,753,752,751,750,749,748,747,746,745,744,743,742,741,740,739,738,737,736,735,734,733,732,731,730,729,728,727,726,725,724,723,722,721,720,719,718,717,716,715,714,713,712,711,710,709,708,707,706,705,704,703,702,701,700,699,698,697,696,695,694,693,692,691,690,689,688,687,686,685,684,683,682,681,680,679,678,677,676,675,674,673,672,671,670,669,668,667,666,665,664,663,662,661,660,659,658,657,656,655,654,653,652,651,650,649,648,647,646,645,644,643,642,641,640,639,638,637,636,635,634,633,632,631,630,629,628,627,626,625,624,623,622,621,620,619,618,617,616,615,614,613,612,611,610,609,608,607,606,605,604,603,602,601,600,599,598,597,596,595,594,593,592,591,590,589,588,587,586,585,584,583,582,581,580,579,578,577,576,575,574,573,572,571,570,569,568,567,566,565,564,563,562,561,560,559,558,557,556,555,554,553,552,551,550,549,548,547,546,545,544,543,542,541,540,539,538,537,536,535,534,533,532,531,530,529,528,527,526,525,524,523,522,521,520,519,518,517,516,515,514,513,512,511,510,509,508,507,506,505,504,503,502,501,500,499,498,497,496,495,494,493,492,491,490,489,488,487,486,485,484,483,482,481,480,479,478,477,476,475,474,473,472,471,470,469,468,467,466,465,464,463,462,461,460,459,458,457,456,455,454,453,452,451,450,449,448,447,446,445,444,443,442,441,440,439,438,437,436,435,434,433,432,431,430,429,428,427,426,425,424,423,422,421,420,419,418,417,416,415,414,413,412,411,410,409,408,407,406,405,404,403,402,401,400,399,398,397,396,395,394,393,392,391,390,389,388,387,386,385,384,383,382,381,380,379,378,377,376,375,374,373,372,371,370,369,368,367,366,365,364,363,362,361,360,359,358,357,356,355,354,353,352,351,350,349,348,347,346,345,344,343,342,341,340,339,338,337,336,335,334,333,332,331,330,329,328,327,326,325,324,323,322,321,320,319,318,317,316,315,314,313,312,311,310,309,308,307,306,305,304,303,302,301,300,299,298,297,296,295,294,293,292,291,290,289,288,287,286,285,284,283,282,281,280,279,278,277,276,275,274,273,272,271,270,269,268,267,266,265,264,263,262,261,260,259,258,257,256,255,254,253,252,251,250,249,248,247,246,245,244,243,242,241,240,239,238,237,236,235,234,233,232,231,230,229,228,227,226,225,224,223,222,221,220,219,218,217,216,215,214,213,212,211,210,209,208,207,206,205,204,203,202,201,200,199,198,197,196,195,194,193,192,191,190,189,188,187,186,185,184,183,182,181,180,179,178,177,176,175,174,173,172,171,170,169,168,167,166,165,164,163,162,161,160,159,158,157,156,155,154,153,152,151,150,149,148,147,146,145,144,143,142,141,140,139,138,137,136,135,134,133,132,131,130,129,128,127,126,125,124,123,122,121,120,119,118,117,116,115,114,113,112,111,110,109,108,107,106,105,104,103,102,101,100,99,98,97,96,95,94,93,92,91,90,89,88,87,86,85,84,83,82,81,80,79,78,77,76,75,74,73,72,71,70,69,68,67,66,65,64,63,62,61,60,59,58,57,56,55,54,53,52,51,50,49,48,47,46,45,44,43,42,41,40,39,38,37,36,35,34,33,32,31,30,29,28,27,26,25,24,23,22,21,20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1,0])
daily_dia.tail(5)
```

```
Out[15]:
```

	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	...	season(t-5)	\
765	11.913917	12.302586	11.223347	11.489046	...	3	
766	12.302586	11.223347	11.489046	11.995096	...	3	
767	11.223347	11.489046	11.995096	12.611274	...	3	
768	11.489046	11.995096	12.611274	11.408516	...	4	
769	11.995096	12.611274	11.408516	11.268234	...	4	

	season(t-6)	season(t-7)	season(t-8)	season(t-9)	season(t-10)	\
765	3	3	3	3	3	
766	3	3	3	3	3	
767	3	3	3	3	3	
768	3	3	3	3	3	
769	4	3	3	3	3	

	season(t-11)	season(t-12)	season(t-13)	season(t-14)
765	3	3	3	3
766	3	3	3	3
767	3	3	3	3
768	3	3	3	3
769	3	3	3	3

[5 rows x 145 columns]

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

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

```
In [16]: #normalitzem
```

```
scaler=preprocessing.MinMaxScaler(feature_range=(0, 1))
daily_dia_norm=scaler.fit_transform(daily_dia)
```

```
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\sklearn\preprocessing\minmaxscaler.py:100: FutureWarning: The default value of gamma will be 0.05 from version 0.22 onwards. Specify gamma=0.0 to silence this warning.
return self.partial_fit(X, y)
```

```
In [17]: #Seleccionem dades per test i train
```

```
y_daily=daily_dia_norm[:,0:60]
X_daily=daily_dia_norm[:,61:146]
```

```

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

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

#Enlloc de 14 features en son 7 de una feature i 7 duna altre
X_daily=np.reshape(X_daily, (X_daily.shape[0], 14,6))

```

```

In [18]: # definim model
import tensorflow as tf
model =Sequential()
model.add(LSTM(50, activation='relu', input_shape=(14, 6)))
model.add(Dense(60))
model.compile(optimizer='adam', loss='mse')

```

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

```

In [19]: 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, predition))
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 [20]: #Dividim la suma de scores de test entre el nombre de prediccions per obtenir la mitja
         sumScores/(lenght-n_train)

```

```

Out[20]: 0.06614557026320886

```

```

In [21]: #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[21]: [[0.615565299987793,
           0.5870523452758789,
           0.6278769373893738,
           0.5520707368850708,
           0.5874109268188477,
           0.5588634014129639,
           0.5513412952423096,
           0.561866819858551,
           0.5584926009178162,
           0.607641875743866,
           0.5546929836273193,
           0.6046041250228882,
           0.5694246292114258,
           0.5548692941665649,
           0.5596340894699097,

```



0.6027422547340393,  
0.5674364566802979,  
0.5745078921318054,  
0.5770542621612549,  
0.5751949548721313,  
0.5531450510025024,  
0.6137626767158508,  
0.5671637654304504,  
0.5944709777832031,  
0.5670823454856873,  
0.5870665907859802,  
0.5977070927619934,  
0.5466874837875366,  
0.5678021311759949,  
0.5339595675468445,  
0.563715934753418,  
0.5980403423309326,  
0.586491584777832,  
0.5707224011421204,  
0.5188155770301819,  
0.51333087682724,  
0.5424008965492249,  
0.5540497899055481,  
0.542892575263977,  
0.5526204109191895,  
0.4870980978012085,  
0.5610179901123047,  
0.524260401725769,  
0.47285279631614685,  
0.5221369862556458,  
0.4736486077308655,  
0.484291672706604,  
0.534578263759613,  
0.48437967896461487,  
0.48940402269363403,  
0.43261826038360596,  
0.5086058974266052,  
0.45940282940864563,  
0.49700525403022766,  
0.47377926111221313,  
0.4288714528083801,  
0.4639146327972412,  
0.4152451753616333,  
0.4509907066822052,  
0.4029499292373657]],  
[[0.6358959674835205,  
0.6245127320289612,  
0.6006609797477722,

0.5895543098449707,  
0.5828407406806946,  
0.5433407425880432,  
0.5924541354179382,  
0.5746573805809021,  
0.6004971265792847,  
0.5707515478134155,  
0.5436339378356934,  
0.5807948112487793,  
0.5612536668777466,  
0.5576280951499939,  
0.6043540835380554,  
0.6018304824829102,  
0.5609090328216553,  
0.542015552520752,  
0.5560430884361267,  
0.5336028337478638,  
0.5358374118804932,  
0.5990020632743835,  
0.5690576434135437,  
0.5638445615768433,  
0.5359199643135071,  
0.5092960596084595,  
0.526793897151947,  
0.5213513374328613,  
0.5467268824577332,  
0.562042236328125,  
0.5260657668113708,  
0.524618923664093,  
0.4853326976299286,  
0.5007297992706299,  
0.49845895171165466,  
0.5276429653167725,  
0.5294719338417053,  
0.49813371896743774,  
0.43445611000061035,  
0.4676993191242218,  
0.4158952832221985,  
0.44930461049079895,  
0.4787188470363617,  
0.46277979016304016,  
0.4501970708370209,  
0.4154359698295593,  
0.37607288360595703,  
0.4126203656196594,  
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```

In [22]: *#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 [23]: 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: 0.05206173804033639
Error predicció 2 dia següent: 0.05393983976715141
Error predicció 3 dia següent: 0.05672352601765881
Error predicció 4 dia següent: 0.05926723995368844
Error predicció 5 dia següent: 0.05965725365634359
Error predicció 6 dia següent: 0.06091777601229184
Error predicció 7 dia següent: 0.06357630124772524
Error predicció 8 dia següent: 0.06297430064497894
Error predicció 9 dia següent: 0.06363021117563711
Error predicció 10 dia següent: 0.06122195096792283
Error predicció 11 dia següent: 0.06268844235980946
Error predicció 12 dia següent: 0.05735358857978129
Error predicció 13 dia següent: 0.05868812920103576
Error predicció 14 dia següent: 0.06028130166356004
Error predicció 15 dia següent: 0.06020254005330228
Error predicció 16 dia següent: 0.060465494114093354
Error predicció 17 dia següent: 0.061528922362915024
Error predicció 18 dia següent: 0.0684388442027361
Error predicció 19 dia següent: 0.07097640502262544
Error predicció 20 dia següent: 0.06978219811122893
Error predicció 21 dia següent: 0.0715808623979674
Error predicció 22 dia següent: 0.07467178109868448
Error predicció 23 dia següent: 0.07480805067196478
Error predicció 24 dia següent: 0.07626770194983332
Error predicció 25 dia següent: 0.0785779334727503
Error predicció 26 dia següent: 0.07625661565995989
Error predicció 27 dia següent: 0.0807545624769193
Error predicció 28 dia següent: 0.07997294593170816
Error predicció 29 dia següent: 0.08018465226909498
Error predicció 30 dia següent: 0.08325554875920607
Error predicció 31 dia següent: 0.08424551272924678
Error predicció 32 dia següent: 0.0826160075875081
Error predicció 33 dia següent: 0.0808940917735336
Error predicció 34 dia següent: 0.08411909152589746
Error predicció 35 dia següent: 0.082521081545721
Error predicció 36 dia següent: 0.08294802986511436
Error predicció 37 dia següent: 0.08025409023819083
Error predicció 38 dia següent: 0.07878718550472438

```

```

Error predicció 39 dia següent: 0.07743808741460075
Error predicció 40 dia següent: 0.0773325905163542
Error predicció 41 dia següent: 0.0752589200786705
Error predicció 42 dia següent: 0.07769220973275048
Error predicció 43 dia següent: 0.07683015009051225
Error predicció 44 dia següent: 0.07453287047408728
Error predicció 45 dia següent: 0.07539137258524659
Error predicció 46 dia següent: 0.0750957728264142
Error predicció 47 dia següent: 0.07673834449738708
Error predicció 48 dia següent: 0.07946258852271368
Error predicció 49 dia següent: 0.08099985055494976
Error predicció 50 dia següent: 0.0783686164581228
Error predicció 51 dia següent: 0.07802336393522602
Error predicció 52 dia següent: 0.07784445547483125
Error predicció 53 dia següent: 0.0754548879277676
Error predicció 54 dia següent: 0.07794800227902654
Error predicció 55 dia següent: 0.07803730748058009
Error predicció 56 dia següent: 0.07890730601766524
Error predicció 57 dia següent: 0.08193374842161447
Error predicció 58 dia següent: 0.08268746856088525
Error predicció 59 dia següent: 0.08430835603306758
Error predicció 60 dia següent: 0.08636886273729785

```

```
In [24]: 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

```

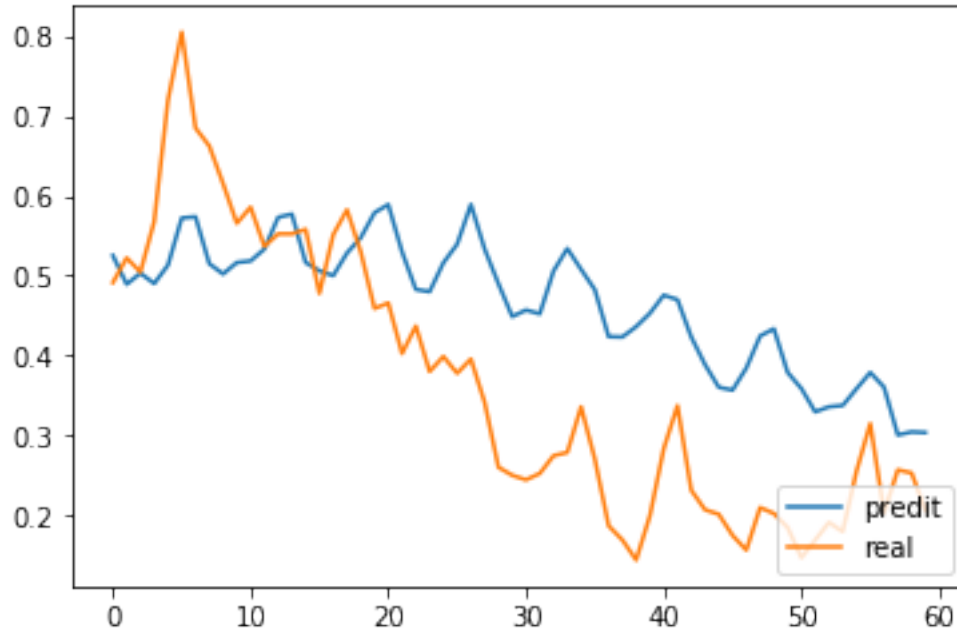
```

Out[24]: array([[0.6155653 , 0.58705235, 0.62787694, ..., 0.41524518, 0.45099071,
                  0.40294993],
                [0.63589597, 0.62451273, 0.60066098, ..., 0.33458731, 0.30169913,
                  0.27071103],
                [0.65159154, 0.63297725, 0.57763153, ..., 0.34638685, 0.3237493 ,
                  0.28737834],
                ...,
                [0.54119492, 0.4971031 , 0.51322901, ..., 0.5546068 , 0.58746684,
                  0.5828402 ],
                [0.59149325, 0.56740946, 0.50034958, ..., 0.56768447, 0.47163215,
                  0.46838972],
                [0.60490334, 0.52370477, 0.5116601 , ..., 0.51087606, 0.43935496,
                  0.4426918 ]])

```

```
In [25]: ##Mostrem
```

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



In [26]: *##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()

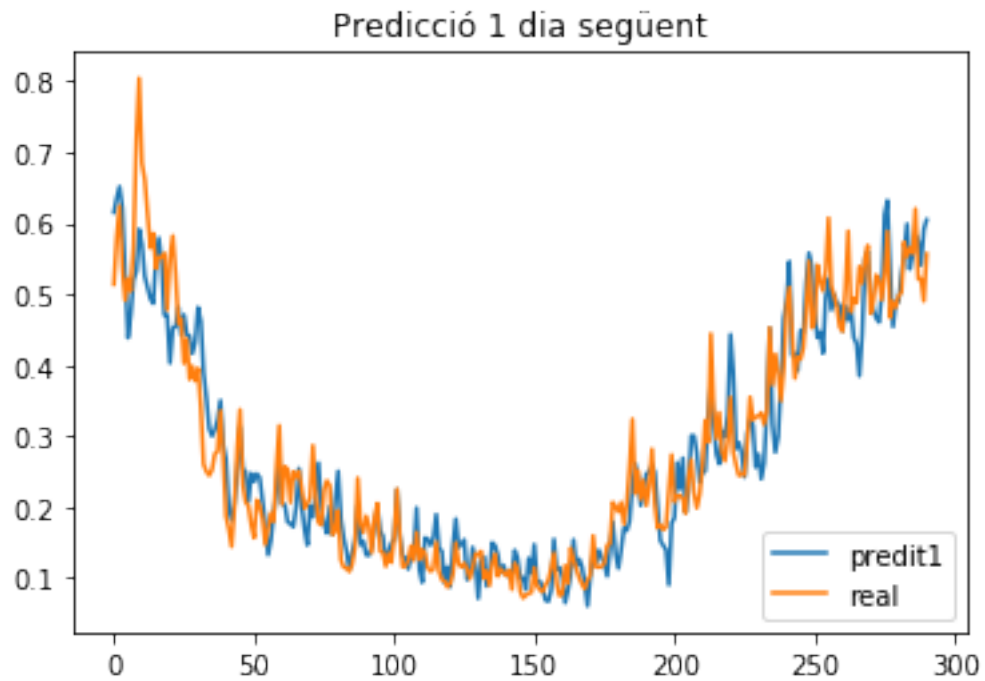
plt.plot(llista_p49, label="predit50")

```



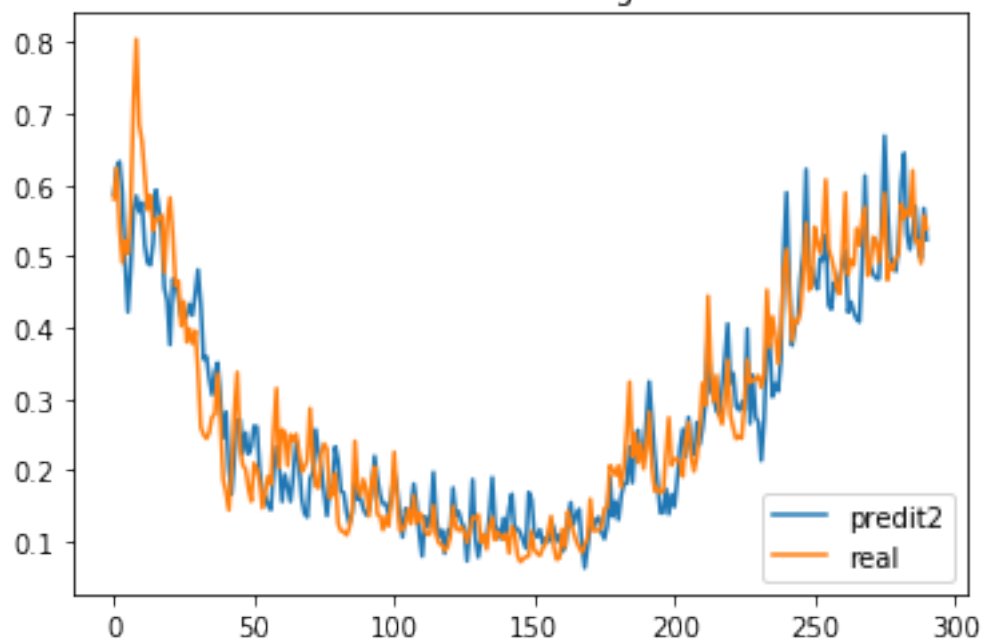
```
plt.plot(y_daily[n_train:lenght,49], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 50 dia següent")
plt.show()
```

```
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()
```

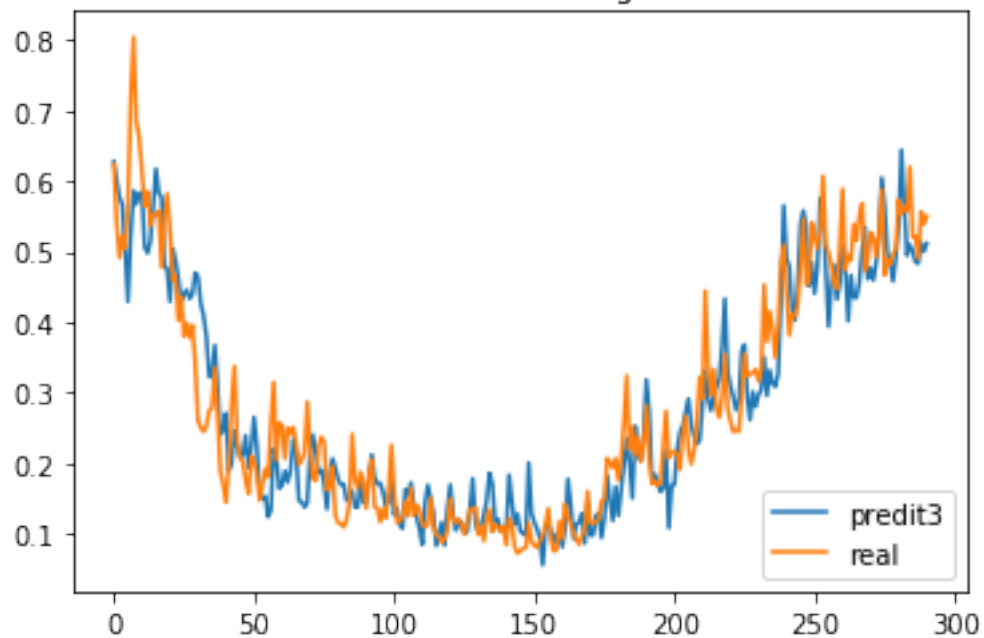




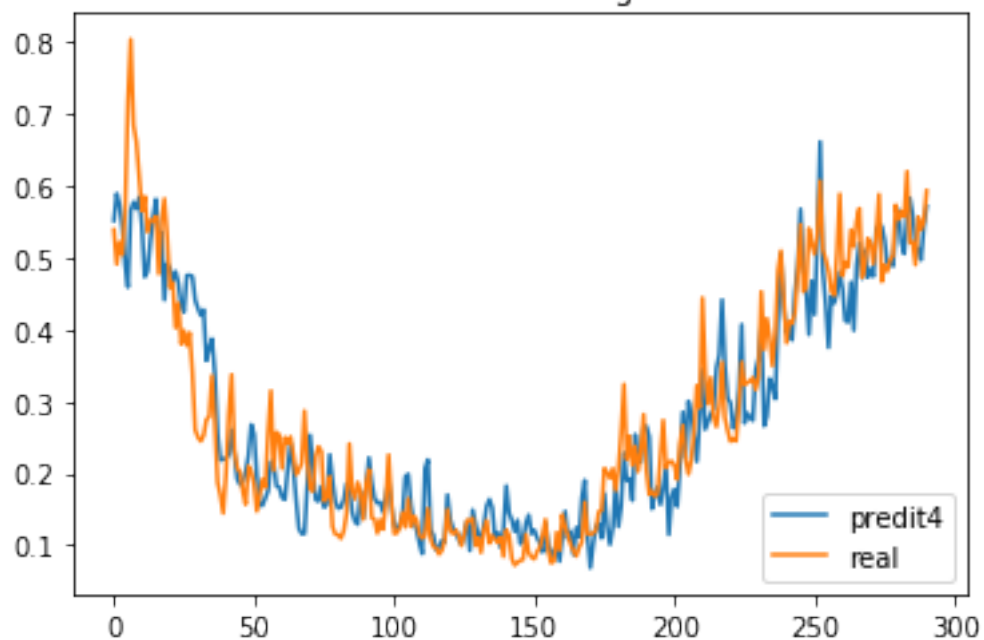
Predicció 2 dia següent



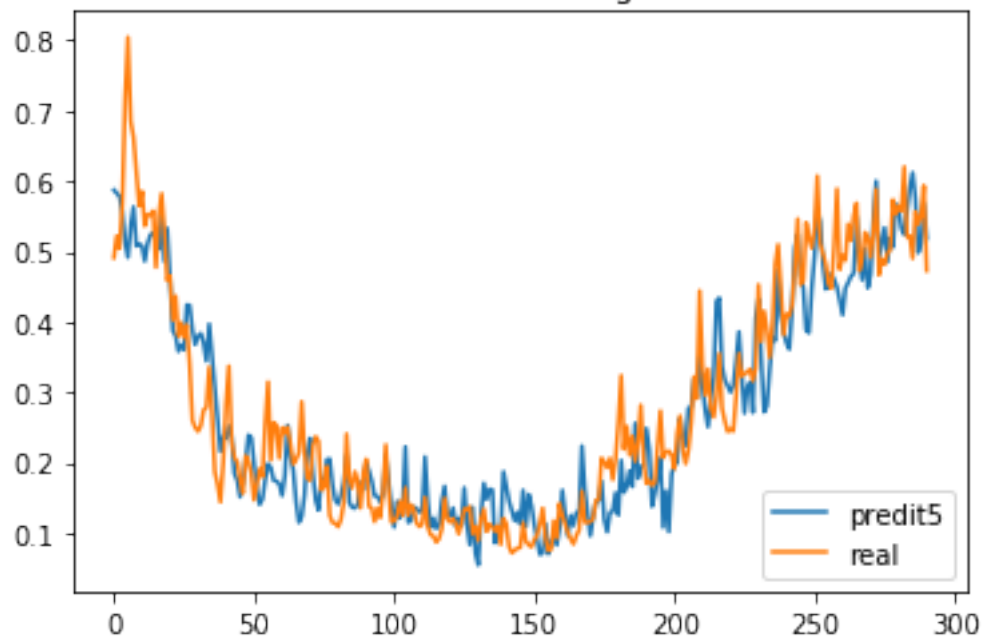
Predicció 3 dia següent



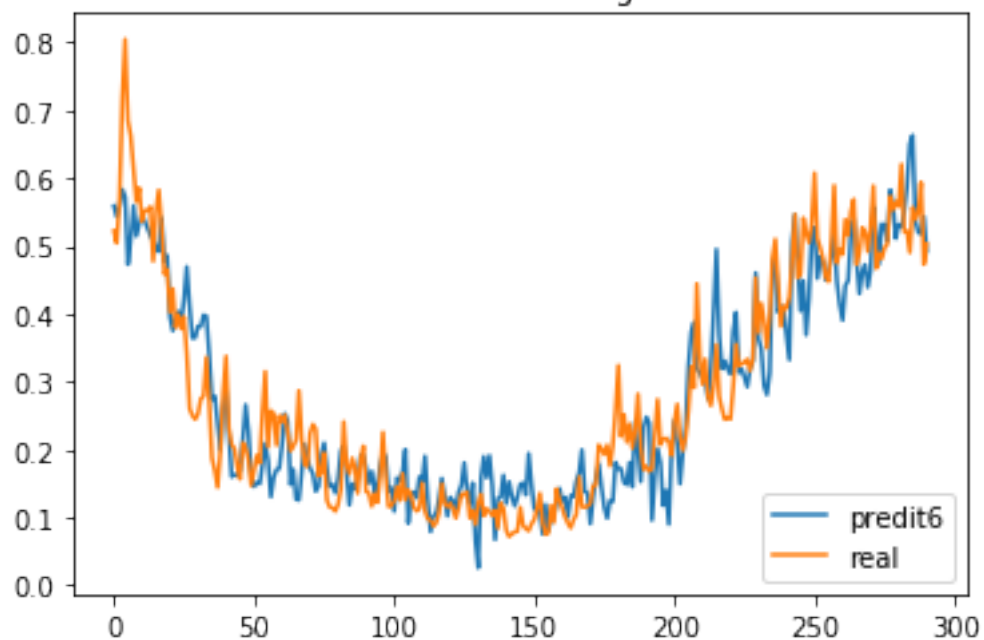
Predicció 4 dia següent



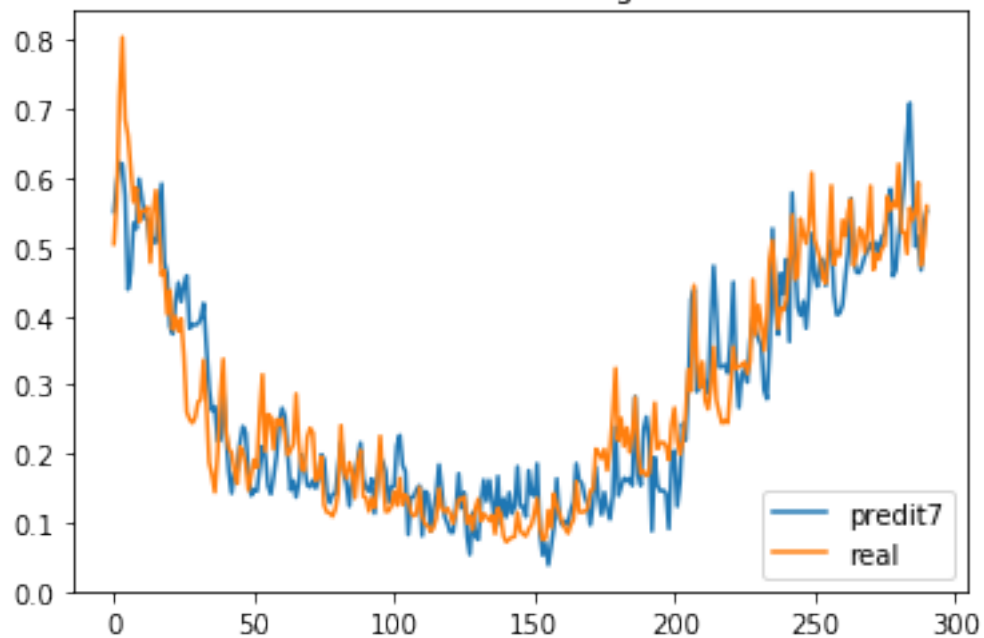
Predicció 5 dia següent



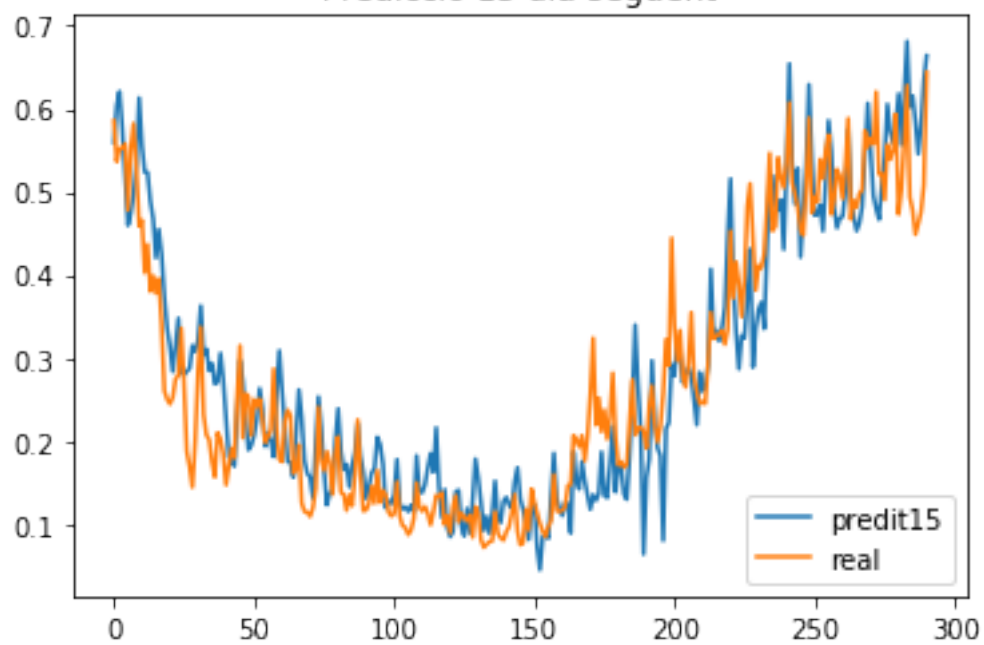
Predicció 6 dia següent



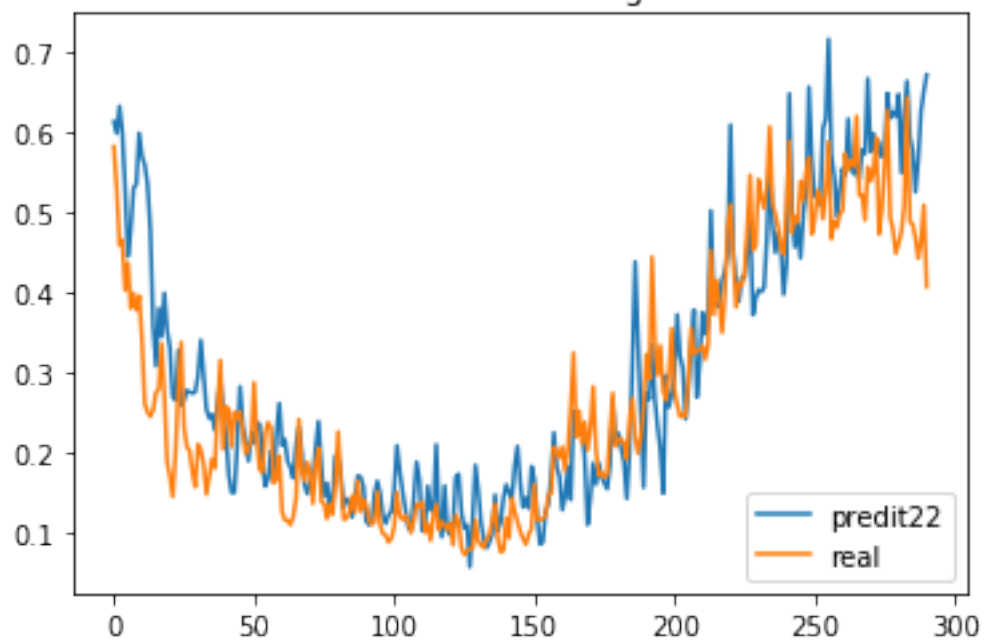
Predicció 7 dia següent



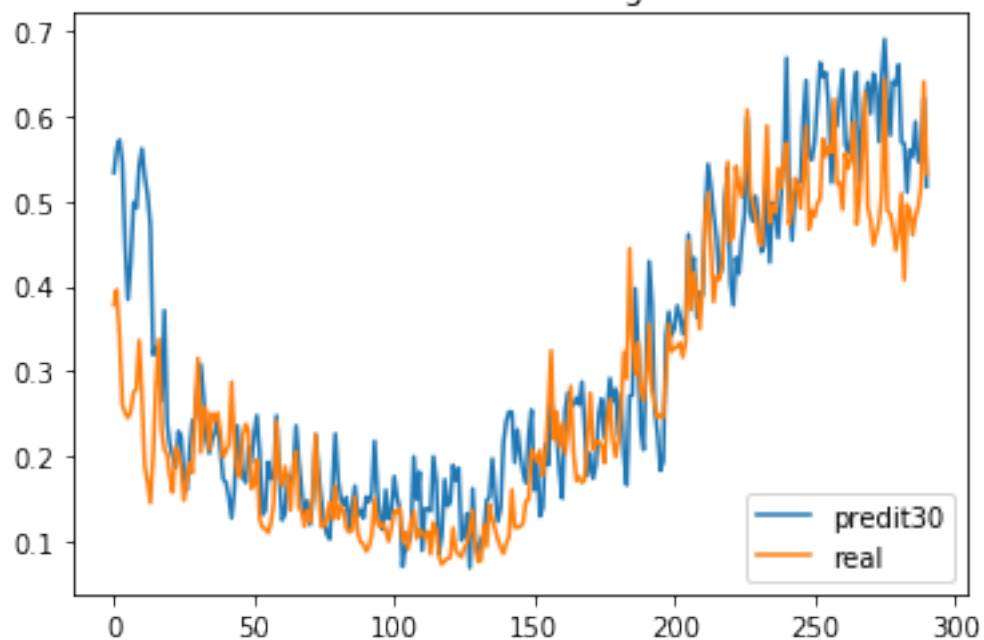
Predicció 15 dia següent



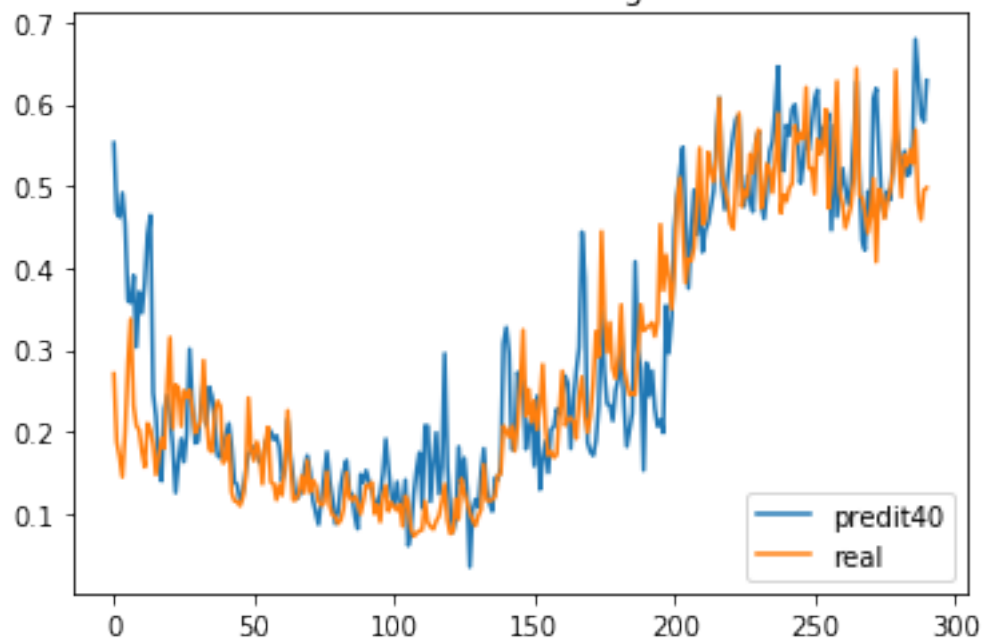
Predicció 22 dia següent



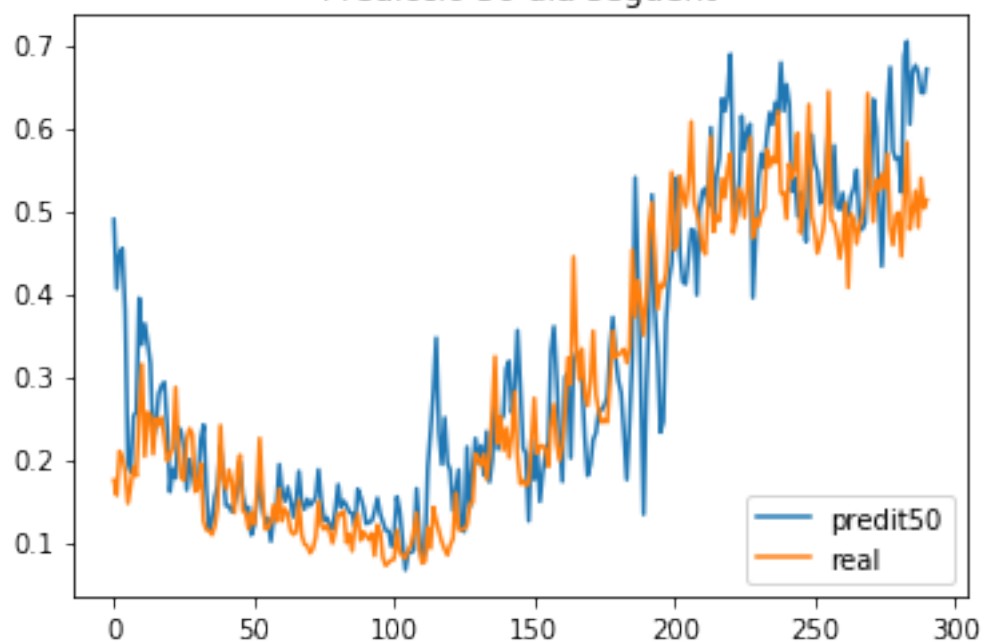
Predicció 30 dia següent



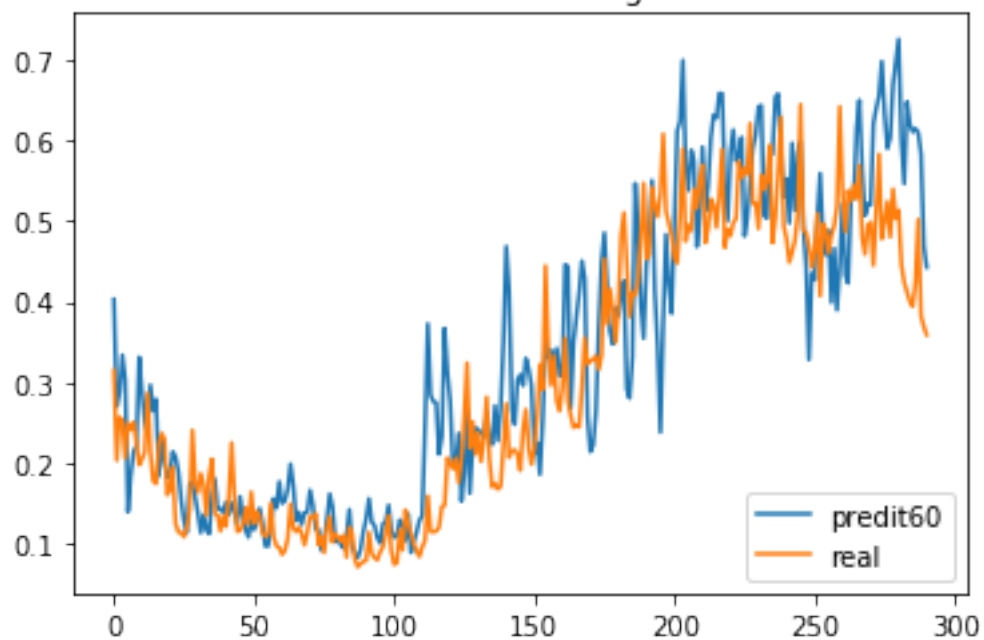
Predicció 40 dia següent



Predicció 50 dia següent



Predicció 60 dia següent



In [ ]:

```
In [27]: llista_scores
```

```
Out[27]: [0.20735680120415456,  
          0.1590417839626136,  
          0.17156426975334688,  
          0.19137162738313435,  
          0.1591728801831779,  
          0.11570268109840752,  
          0.11465101490787746,  
          0.14259743947068723,  
          0.1297568744892599,  
          0.18558346380596696,  
          0.17545704468548526,  
          0.1816864444365749,  
          0.1860634046082969,  
          0.1723351557843717,  
          0.07965979043707638,  
          0.06523771418258391,  
          0.07166037250441915,  
          0.07062650420959692,  
          0.1040162661240568,  
          0.0784804057743772,  
          0.08398075937533743,  
          0.04983291496772945,  
          0.06327694637782369,  
          0.0664679585335353,  
          0.055667798928967054,  
          0.06183077980744319,  
          0.07608682187274392,  
          0.07578787229008636,  
          0.08005291641380688,  
          0.0776232605264477,  
          0.0791363524099031,  
          0.09603396799273879,  
          0.10314095920685432,  
          0.08136869422243671,  
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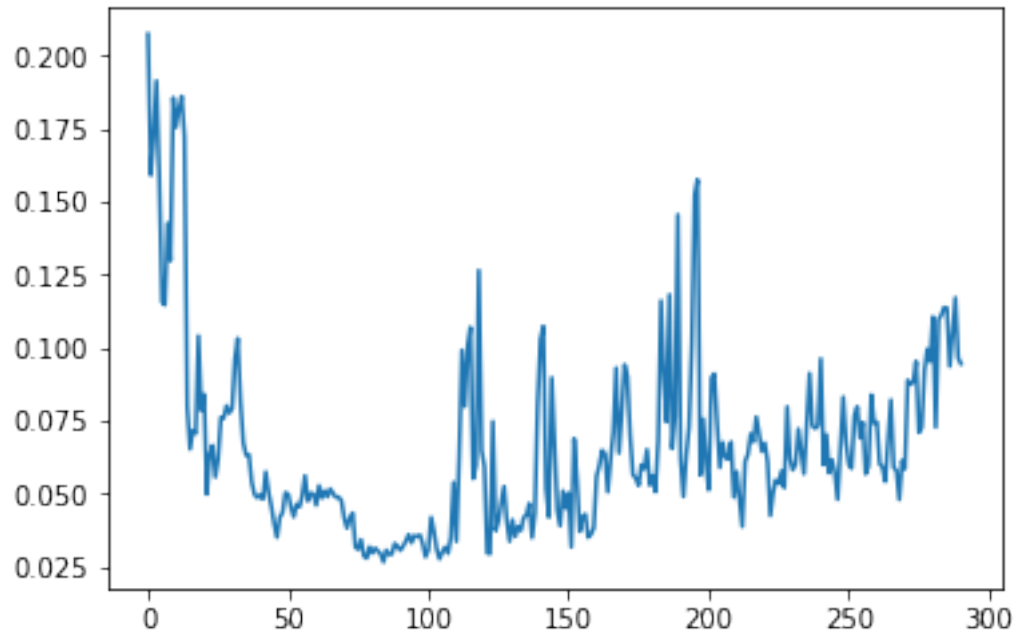
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```

```
In [28]: plt.plot(llista_scores)
```

```
Out[28]: [<matplotlib.lines.Line2D at 0x1dbc10a3048>]
```



```
In [29]: 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
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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']]
prova

```

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

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

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

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

```

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

```

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

```

# Remove the CWD from sys.path while we load stuff.
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.

```



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

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

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

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

```
if sys.path[0] == '':
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

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

```
del sys.path[0]
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel_launcher.py:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

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

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

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

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

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

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

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

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

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

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

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

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

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/indexing.html>.  
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel\_launcher.py:  
A value is trying to be set on a copy of a slice from a DataFrame.  
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/indexing.html>.  
c:\users\laura\appdata\local\programs\python\python37\lib\site-packages\ipykernel\_launcher.py:  
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In [30]: *#Tornem valors a normals*

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

In [33]: `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()
```

```
l1listay14=list()  
l1listay15=list()  
l1listay16=list()  
l1listay17=list()  
l1listay18=list()  
l1listay19=list()  
l1listay20=list()  
l1listay21=list()  
l1listay22=list()  
l1listay23=list()  
l1listay24=list()  
l1listay25=list()  
l1listay26=list()  
l1listay27=list()  
l1listay28=list()  
l1listay29=list()  
l1listay30=list()  
l1listay31=list()  
l1listay32=list()  
l1listay33=list()  
l1listay34=list()  
l1listay35=list()  
l1listay36=list()  
l1listay37=list()  
l1listay38=list()  
l1listay39=list()  
l1listay40=list()  
l1listay41=list()  
l1listay42=list()  
l1listay43=list()  
l1listay44=list()  
l1listay45=list()  
l1listay46=list()  
l1listay47=list()  
l1listay48=list()  
l1listay49=list()  
l1listay50=list()  
l1listay51=list()  
l1listay52=list()  
l1listay53=list()  
l1listay54=list()  
l1listay55=list()  
l1listay56=list()  
l1listay57=list()  
l1listay58=list()  
l1listay59=list()  
l1listay60=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])

```

```
l1stay10.append(predi[i][23])
l1stay11.append(predi[i][24])
l1stay12.append(predi[i][25])
l1stay13.append(predi[i][26])
l1stay14.append(predi[i][27])
l1stay15.append(predi[i][28])
l1stay16.append(predi[i][29])
l1stay17.append(predi[i][30])
l1stay18.append(predi[i][31])
l1stay19.append(predi[i][32])
l1stay20.append(predi[i][33])
l1stay21.append(predi[i][34])
l1stay22.append(predi[i][35])
l1stay23.append(predi[i][36])
l1stay24.append(predi[i][37])
l1stay25.append(predi[i][38])
l1stay26.append(predi[i][39])
l1stay27.append(predi[i][40])
l1stay28.append(predi[i][41])
l1stay29.append(predi[i][42])
l1stay30.append(predi[i][43])
```

```
l1stay31.append(predi[i][44])
l1stay32.append(predi[i][45])
l1stay33.append(predi[i][46])
l1stay34.append(predi[i][47])
l1stay35.append(predi[i][48])
l1stay36.append(predi[i][49])
l1stay37.append(predi[i][50])
l1stay38.append(predi[i][51])
l1stay39.append(predi[i][52])
l1stay40.append(predi[i][53])
l1stay41.append(predi[i][54])
l1stay42.append(predi[i][55])
l1stay43.append(predi[i][56])
l1stay44.append(predi[i][57])
l1stay45.append(predi[i][58])
l1stay46.append(predi[i][59])
l1stay47.append(predi[i][60])
l1stay48.append(predi[i][61])
l1stay49.append(predi[i][62])
l1stay50.append(predi[i][63])
l1stay51.append(predi[i][64])
l1stay52.append(predi[i][65])
l1stay53.append(predi[i][66])
l1stay54.append(predi[i][67])
l1stay55.append(predi[i][68])
```

```
l1stay56.append(predi[i][69])
l1stay57.append(predi[i][70])
l1stay58.append(predi[i][71])
l1stay59.append(predi[i][72])
l1stay60.append(predi[i][73])
```

```
l1lista15.append(predi2[i][0])
l1lista16.append(predi2[i][1])
l1lista17.append(predi2[i][2])
l1lista18.append(predi2[i][3])
l1lista19.append(predi2[i][4])
l1lista20.append(predi2[i][5])
l1lista21.append(predi2[i][6])
l1lista22.append(predi2[i][7])
l1lista23.append(predi2[i][8])
l1lista24.append(predi2[i][9])
l1lista25.append(predi2[i][10])
l1lista26.append(predi2[i][11])
l1lista27.append(predi2[i][12])
l1lista28.append(predi2[i][13])
l1lista29.append(predi2[i][14])
l1lista30.append(predi2[i][15])
l1lista31.append(predi2[i][16])
l1lista32.append(predi2[i][17])
l1lista33.append(predi2[i][18])
l1lista34.append(predi2[i][19])
l1lista35.append(predi2[i][20])
l1lista36.append(predi2[i][21])
l1lista37.append(predi2[i][22])
l1lista38.append(predi2[i][23])
l1lista39.append(predi2[i][24])
l1lista40.append(predi2[i][25])
l1lista41.append(predi2[i][26])
l1lista42.append(predi2[i][27])
l1lista43.append(predi2[i][28])
l1lista44.append(predi2[i][29])
l1lista45.append(predi2[i][30])
l1lista46.append(predi2[i][31])
l1lista47.append(predi2[i][32])
l1lista48.append(predi2[i][33])
l1lista49.append(predi2[i][34])
l1lista50.append(predi2[i][35])
l1lista51.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/l1listay14[i]
l1lista_errorsres14.append(valorrespecte14)

valor15=l1listay15[i] - l1lista15[i]
valorabs15=math.fabs(valor15)
valorrespecte15=valorabs15/l1listay15[i]
l1lista_errors15.append(valor15)
l1lista_errorsabs15.append(valorabs15)
l1lista_errorsres15.append(valorrespecte15)

valor16=l1listay16[i] - l1lista16[i]
valorabs16=math.fabs(valor16)
valorrespecte16=valorabs16/l1listay16[i]
l1lista_errorsres16.append(valorrespecte16)

valor17=l1listay17[i] - l1lista17[i]
valorabs17=math.fabs(valor17)
valorrespecte17=valorabs17/l1listay17[i]
l1lista_errorsres17.append(valorrespecte17)

valor18=l1listay18[i] - l1lista18[i]
valorabs18=math.fabs(valor18)
valorrespecte18=valorabs18/l1listay18[i]
l1lista_errorsres18.append(valorrespecte18)

valor19=l1listay19[i] - l1lista19[i]
valorabs19=math.fabs(valor19)
valorrespecte19=valorabs19/l1listay19[i]
l1lista_errorsres19.append(valorrespecte19)

valor20=l1listay20[i] - l1lista20[i]
valorabs20=math.fabs(valor20)
valorrespecte20=valorabs20/l1listay20[i]
l1lista_errors20.append(valor20)
l1lista_errorsabs20.append(valorabs20)
l1lista_errorsres20.append(valorrespecte20)

valor25=l1listay25[i] - l1lista25[i]
valorabs25=math.fabs(valor25)
valorrespecte25=valorabs25/l1listay25[i]
l1lista_errors25.append(valor25)
l1lista_errorsabs25.append(valorabs25)
l1lista_errorsres25.append(valorrespecte25)

valor30=l1listay30[i] - l1lista30[i]
valorabs30=math.fabs(valor30)
valorrespecte30=valorabs30/l1listay30[i]

```

```

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

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

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

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

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

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

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

llista_errorsres31.append(valorrespecte31)

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

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

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

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

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

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

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


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

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

```

```

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
```

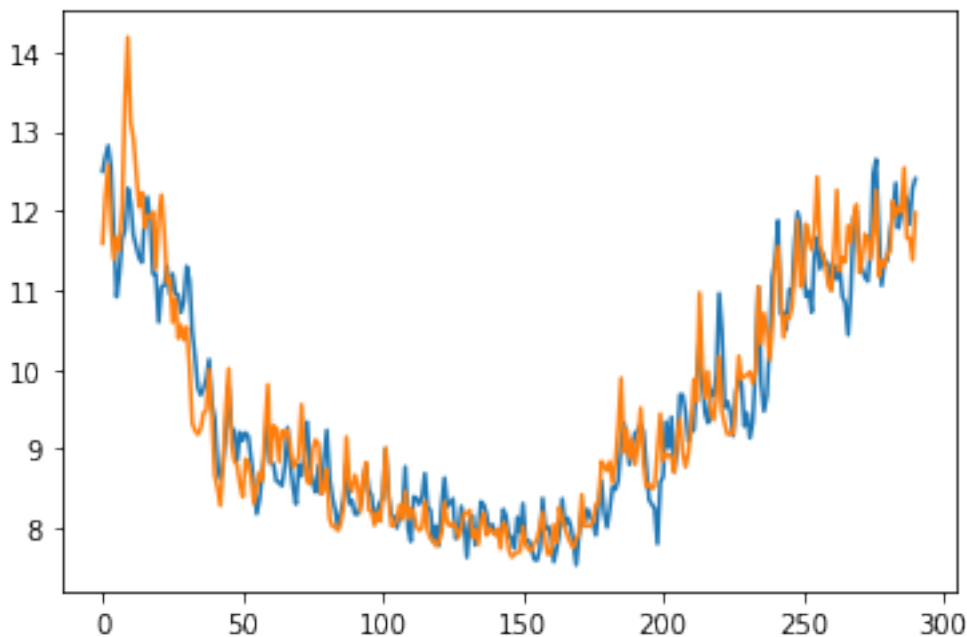
```
print("L'error mitjà a 1 dia és de {} % " .format(error_mitja1))  
print("L'error mitjà a 2 dies és de {} % " .format(error_mitja2))  
print("L'error mitjà a 3 dies és de {} % " .format(error_mitja3))  
print("L'error mitjà a 4 dies és de {} % " .format(error_mitja4))  
print("L'error mitjà a 5 dies 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 8 dies és de {} % " .format(error_mitja8))  
print("L'error mitjà a 9 dies és de {} % " .format(error_mitja9))  
print("L'error mitjà a 10 dies és de {} % " .format(error_mitja10))  
print("L'error mitjà a 11 dies és de {} % " .format(error_mitja11))  
print("L'error mitjà a 12 dies és de {} % " .format(error_mitja12))  
print("L'error mitjà a 13 dies és de {} % " .format(error_mitja13))  
print("L'error mitjà a 14 dies és de {} % " .format(error_mitja14))  
print("L'error mitjà a 15 dies és de {} % " .format(error_mitja15))  
print("L'error mitjà a 16 dies és de {} % " .format(error_mitja16))  
print("L'error mitjà a 17 dies és de {} % " .format(error_mitja17))  
print("L'error mitjà a 18 dies és de {} % " .format(error_mitja18))  
print("L'error mitjà a 19 dies és de {} % " .format(error_mitja19))  
print("L'error mitjà a 20 dies és de {} % " .format(error_mitja20))  
print("L'error mitjà a 21 dies és de {} % " .format(error_mitja21))  
print("L'error mitjà a 22 dies és de {} % " .format(error_mitja22))  
print("L'error mitjà a 23 dies és de {} % " .format(error_mitja23))  
print("L'error mitjà a 24 dies és de {} % " .format(error_mitja24))  
print("L'error mitjà a 25 dies és de {} % " .format(error_mitja25))  
print("L'error mitjà a 26 dies és de {} % " .format(error_mitja26))  
print("L'error mitjà a 27 dies és de {} % " .format(error_mitja27))  
print("L'error mitjà a 28 dies és de {} % " .format(error_mitja28))  
print("L'error mitjà a 29 dies és de {} % " .format(error_mitja29))  
print("L'error mitjà a 30 dies és de {} % " .format(error_mitja30))  
  
print("L'error mitjà a 31 dia és de {} % " .format(error_mitja31))  
print("L'error mitjà a 32 dies és de {} % " .format(error_mitja32))  
print("L'error mitjà a 33 dies és de {} % " .format(error_mitja33))  
print("L'error mitjà a 34 dies és de {} % " .format(error_mitja34))
```

```

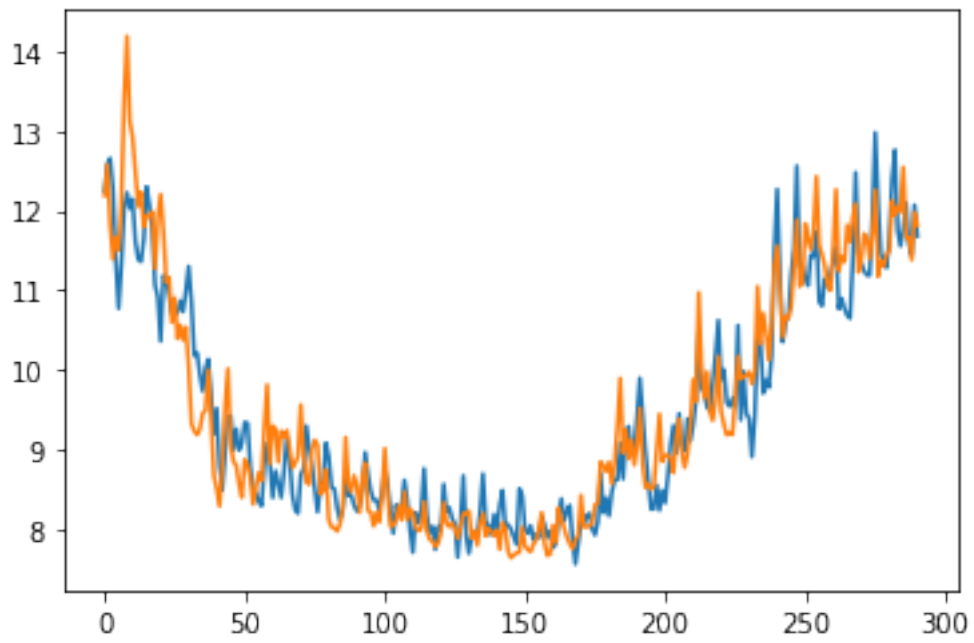
print("L'error mitjà a 35 dies és de {} % " .format(error_mitja35))
print("L'error mitjà a 36 dies és de {} % " .format(error_mitja36))
print("L'error mitjà a 37 dies és de {} % " .format(error_mitja37))
print("L'error mitjà a 38 dies és de {} % " .format(error_mitja38))
print("L'error mitjà a 39 dies és de {} % " .format(error_mitja39))
print("L'error mitjà a 40 dies és de {} % " .format(error_mitja40))
print("L'error mitjà a 41 dies és de {} % " .format(error_mitja41))
print("L'error mitjà a 42 dies és de {} % " .format(error_mitja42))
print("L'error mitjà a 43 dies és de {} % " .format(error_mitja43))
print("L'error mitjà a 44 dies és de {} % " .format(error_mitja44))
print("L'error mitjà a 45 dies és de {} % " .format(error_mitja45))
print("L'error mitjà a 46 dies és de {} % " .format(error_mitja46))
print("L'error mitjà a 47 dies és de {} % " .format(error_mitja47))
print("L'error mitjà a 48 dies és de {} % " .format(error_mitja48))
print("L'error mitjà a 49 dies és de {} % " .format(error_mitja49))
print("L'error mitjà a 50 dies és de {} % " .format(error_mitja50))
print("L'error mitjà a 51 dies és de {} % " .format(error_mitja51))
print("L'error mitjà a 52 dies és de {} % " .format(error_mitja52))
print("L'error mitjà a 53 dies és de {} % " .format(error_mitja53))
print("L'error mitjà a 54 dies és de {} % " .format(error_mitja54))
print("L'error mitjà a 55 dies és de {} % " .format(error_mitja55))
print("L'error mitjà a 56 dies és de {} % " .format(error_mitja56))
print("L'error mitjà a 57 dies és de {} % " .format(error_mitja57))
print("L'error mitjà a 58 dies és de {} % " .format(error_mitja58))
print("L'error mitjà a 59 dies és de {} % " .format(error_mitja59))
print("L'error mitjà a 60 dies és de {} % " .format(error_mitja60))

```

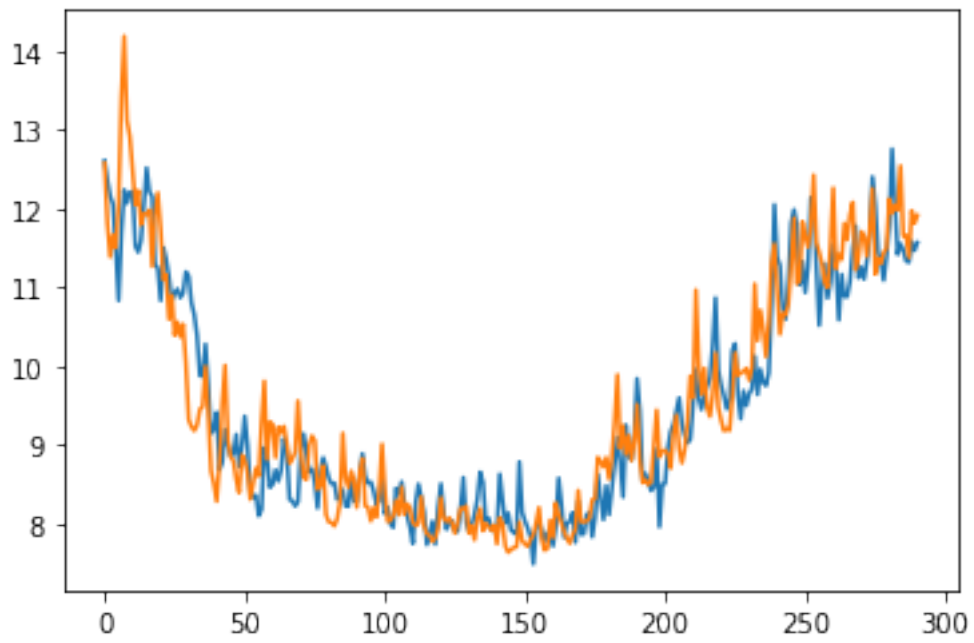
Predicció consum a 1 dia



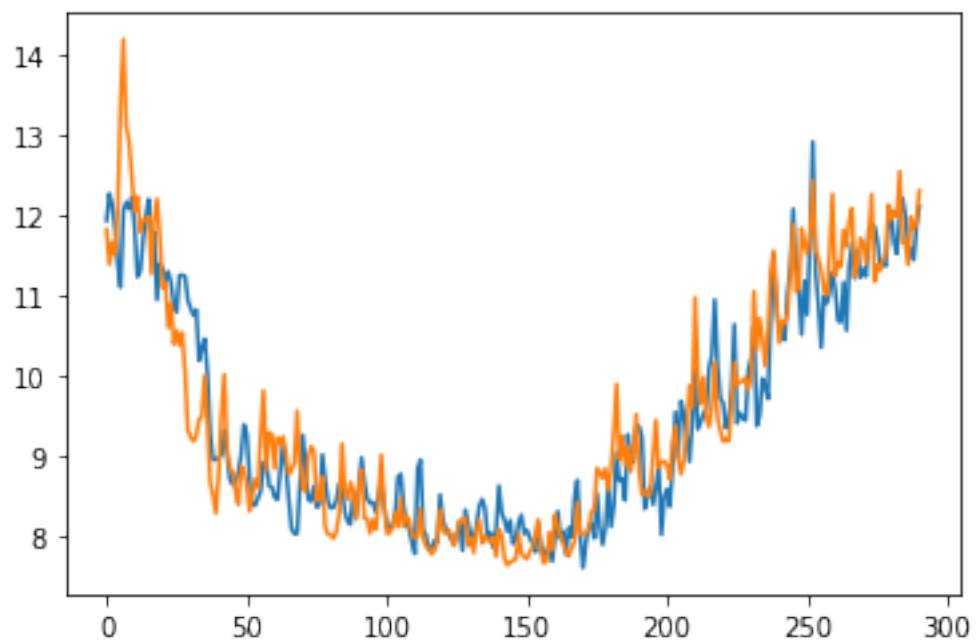
Predicció consum a 2 dies



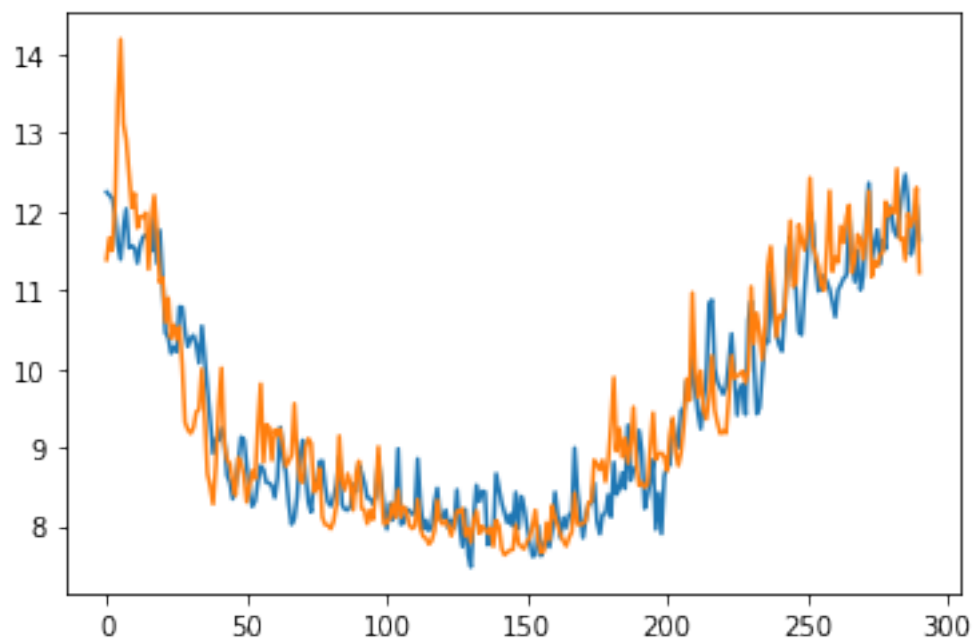
Predicció consum a 3 dies



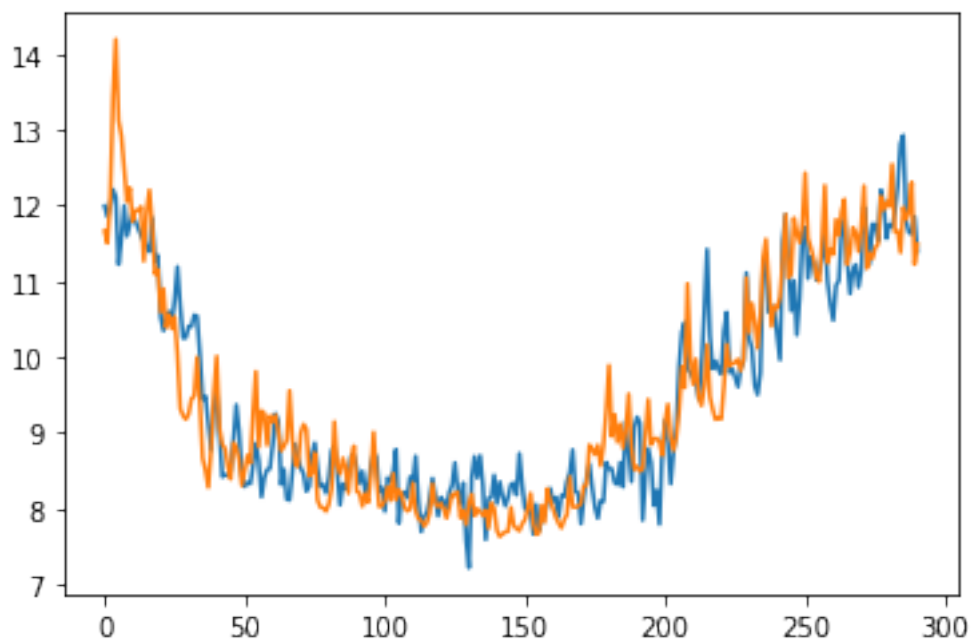
Predicció consum a 4 dies



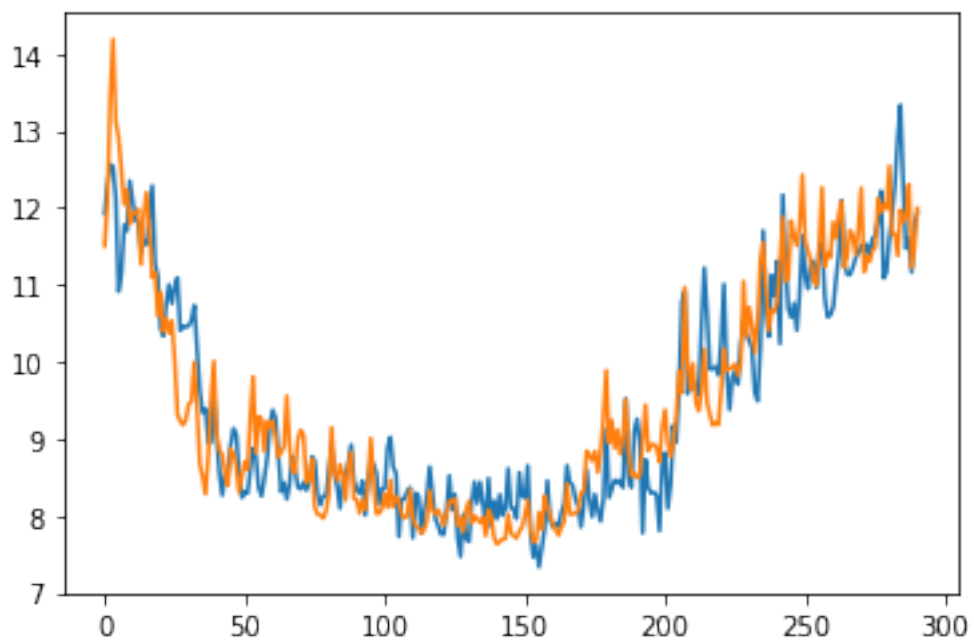
Predicció consum a 5 dies



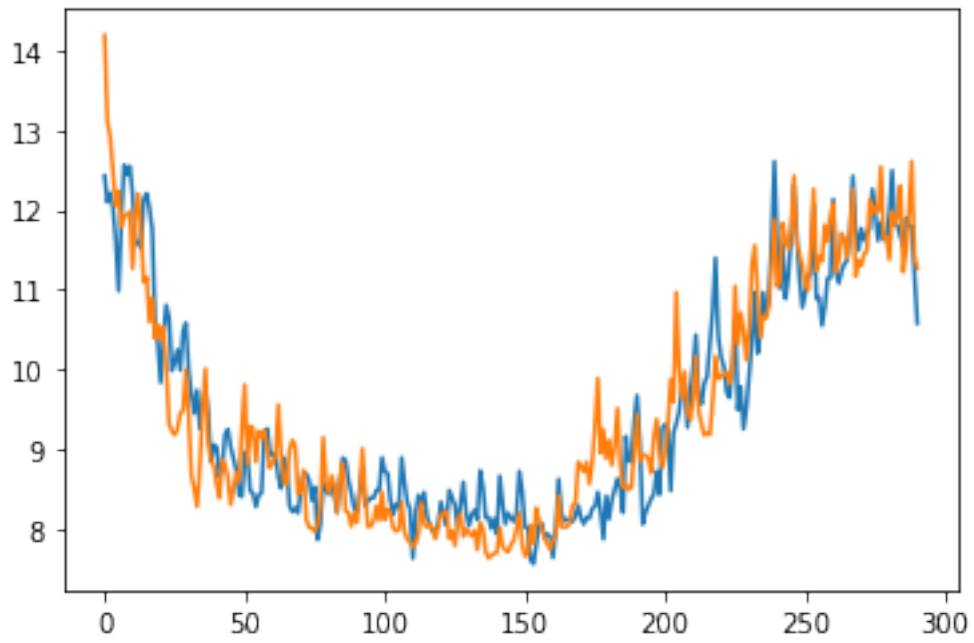
Predicció consum a 6 dies



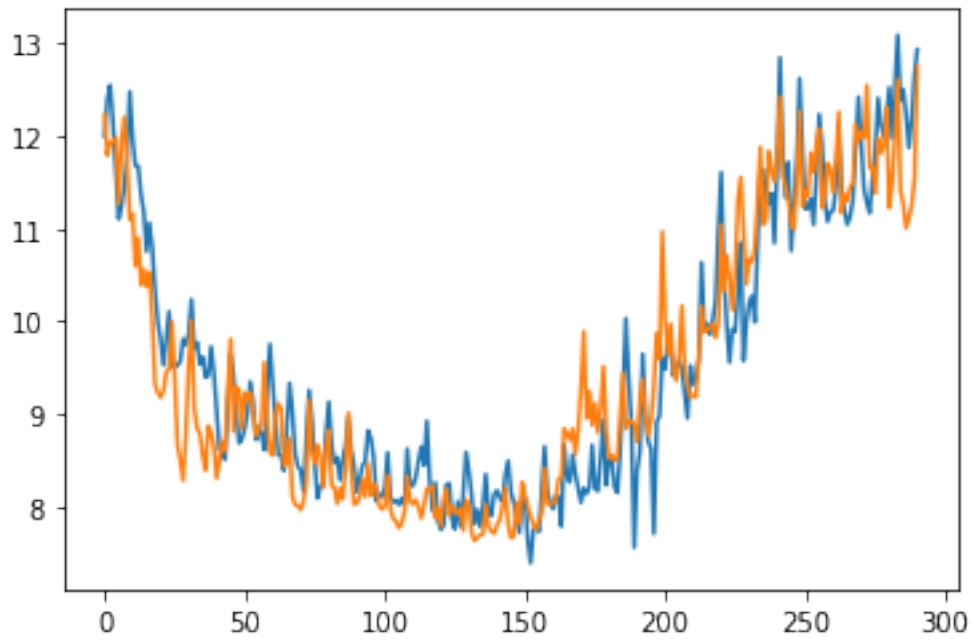
Predicció consum a 7 dies



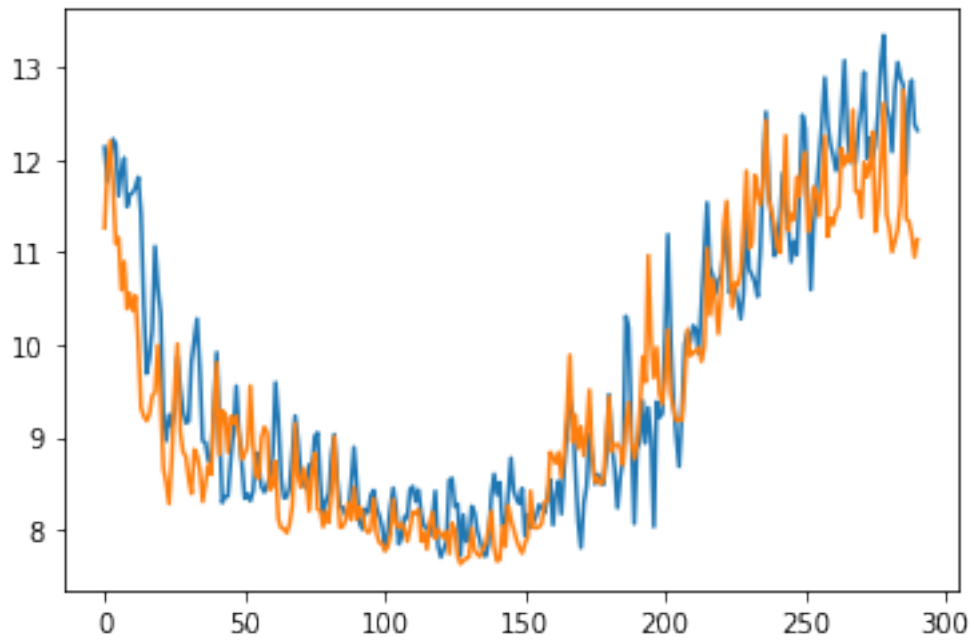
Predicció consum a 10 dies



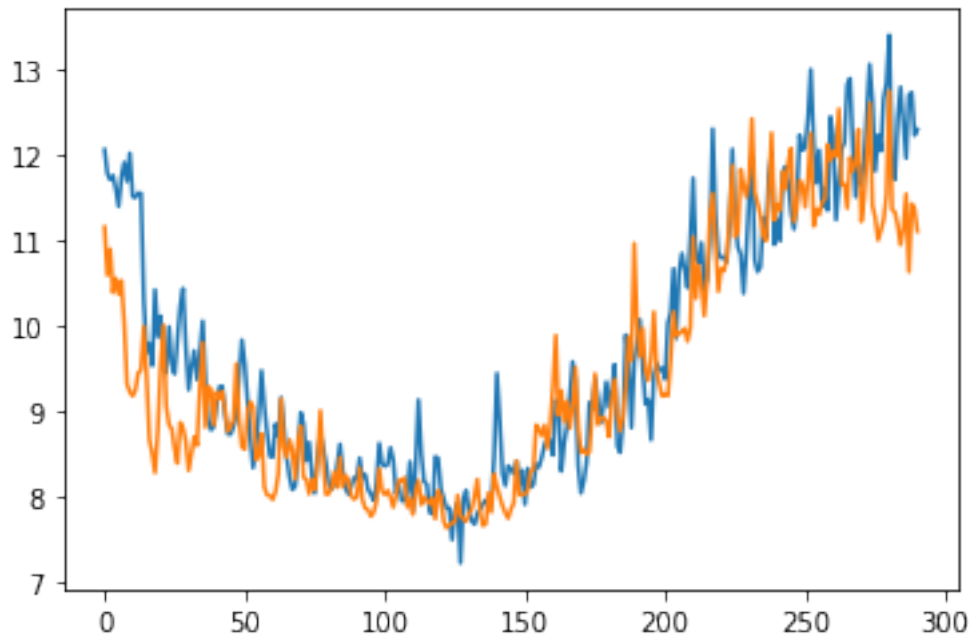
Predicció consum a 15 dies



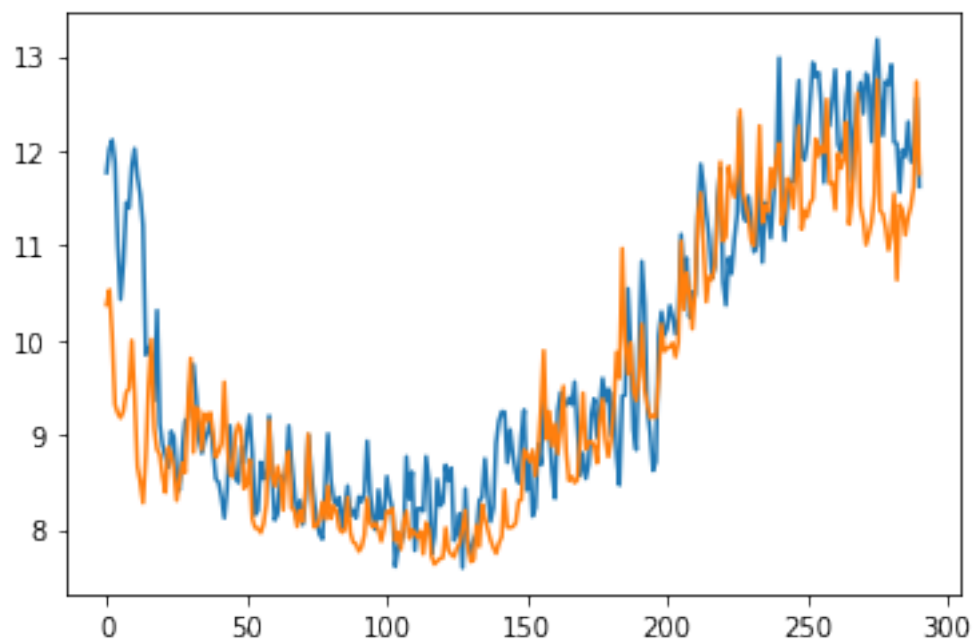
Predicció consum a 20 dies



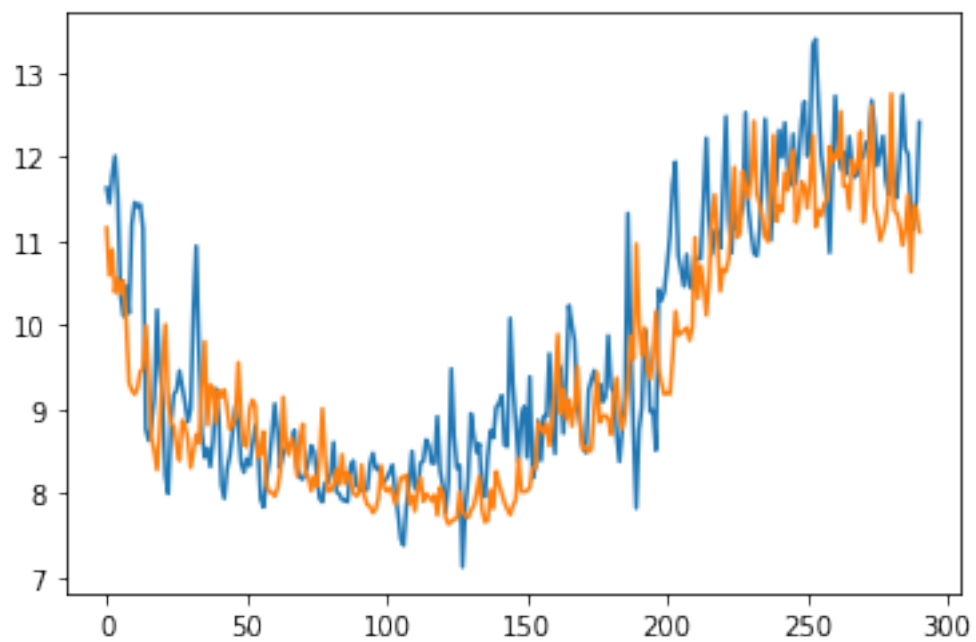
Predicció consum a 25 dies



Predicció consum a 30 dies

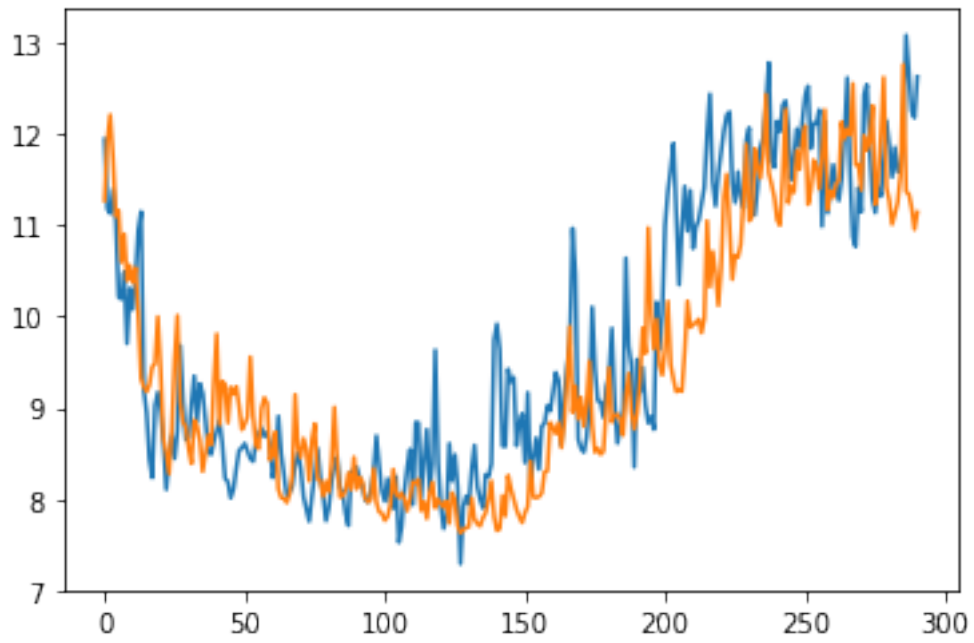


Predicció consum a 35 dies

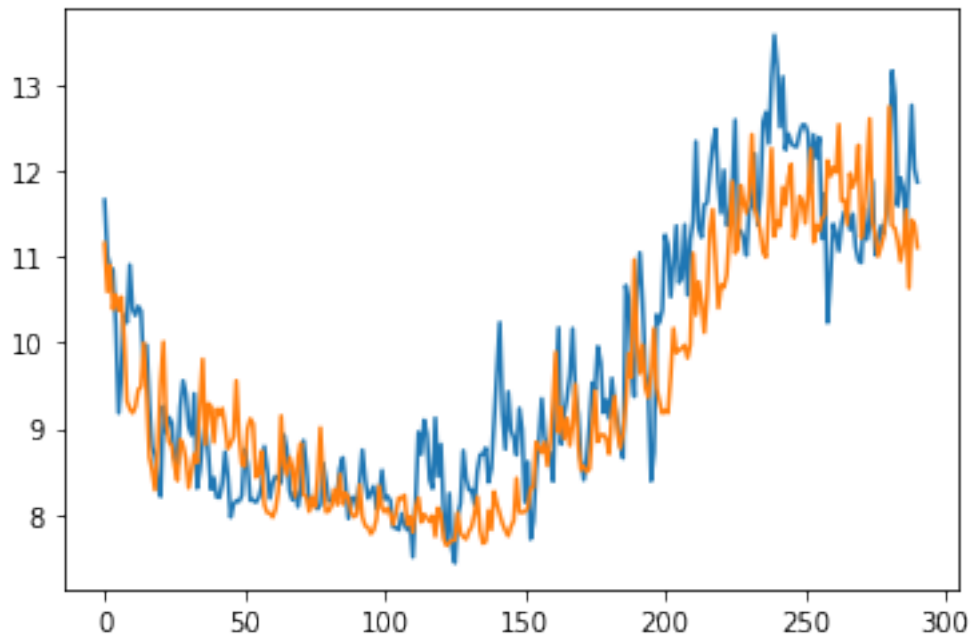




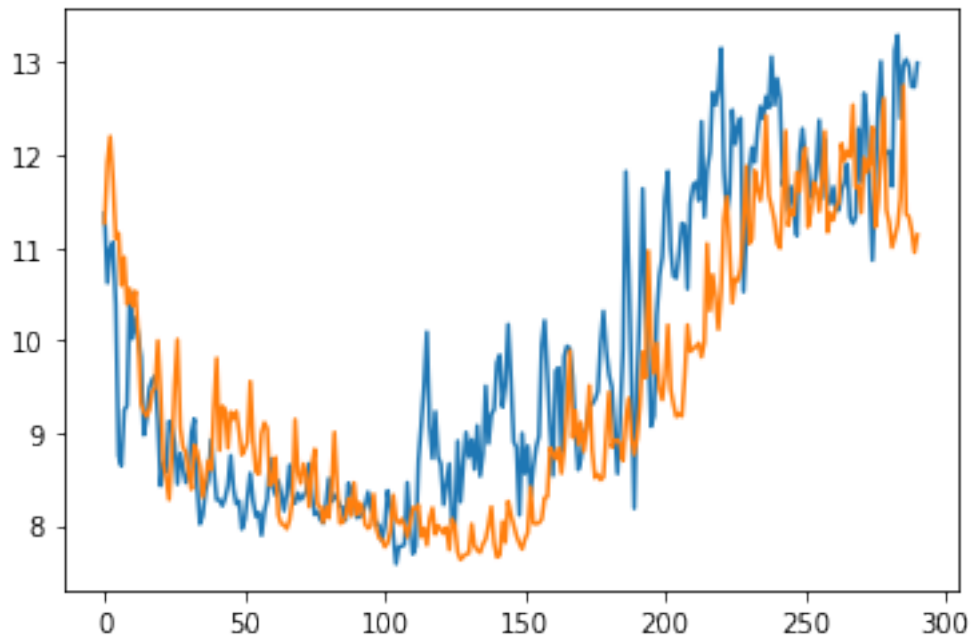
Predicció consum a 40 dies



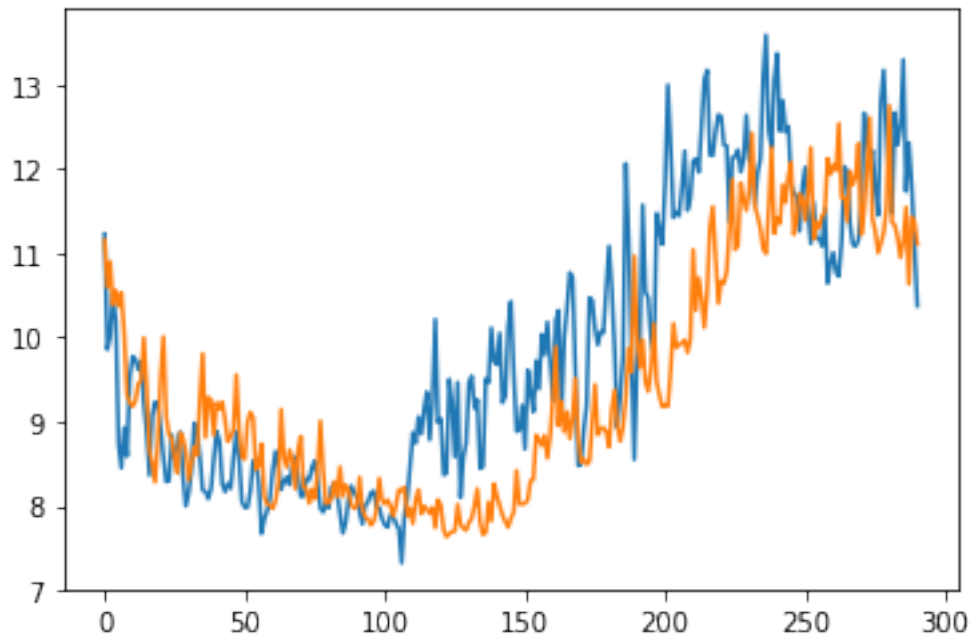
Predicció consum a 45 dies



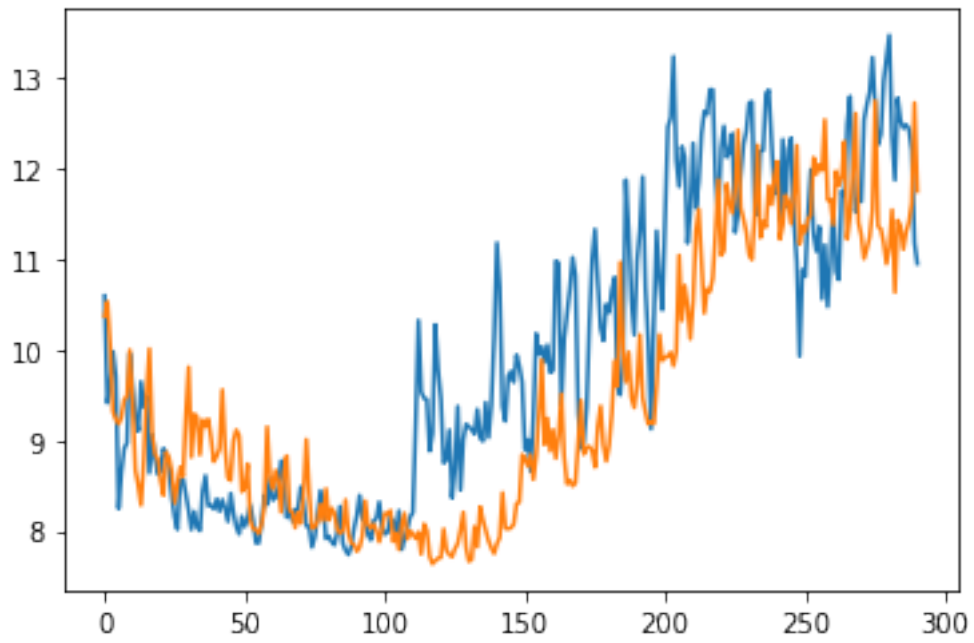
Predicció consum a 50 dies



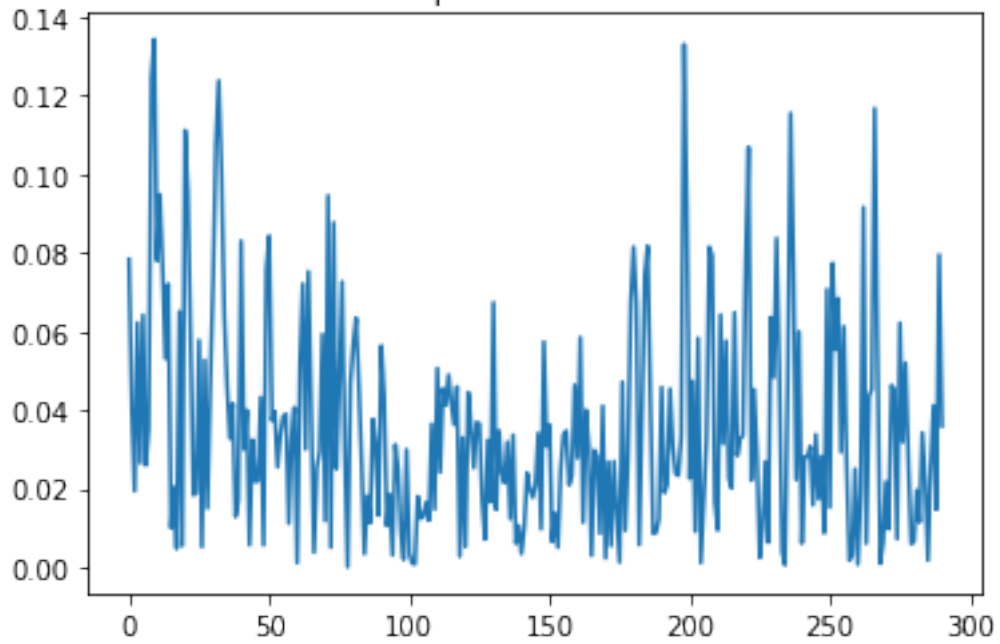
Predicció consum a 55 dies

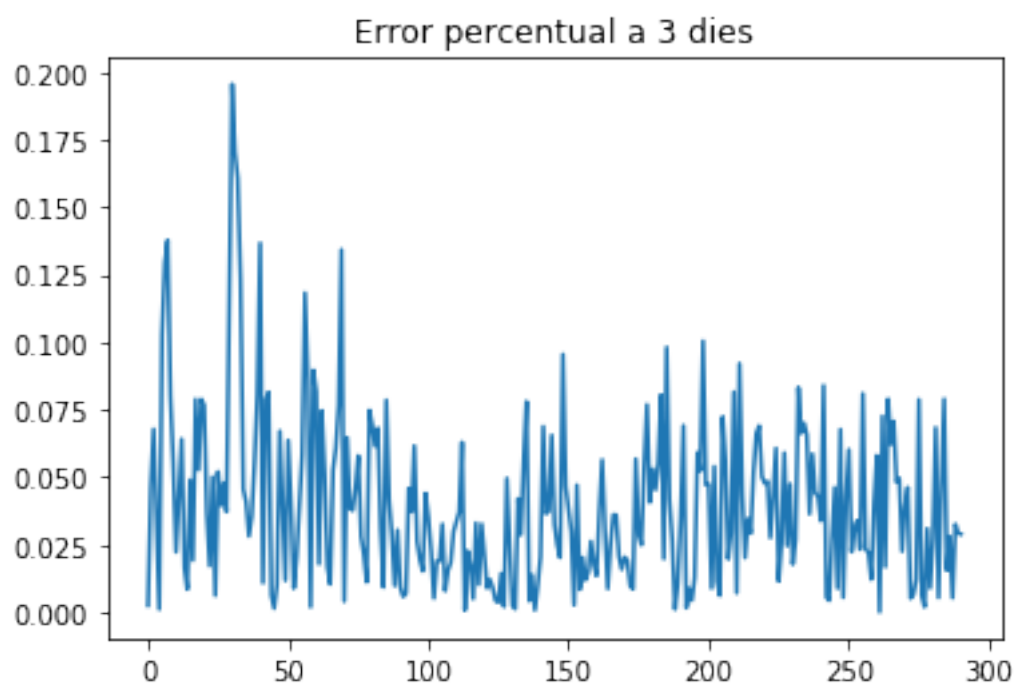
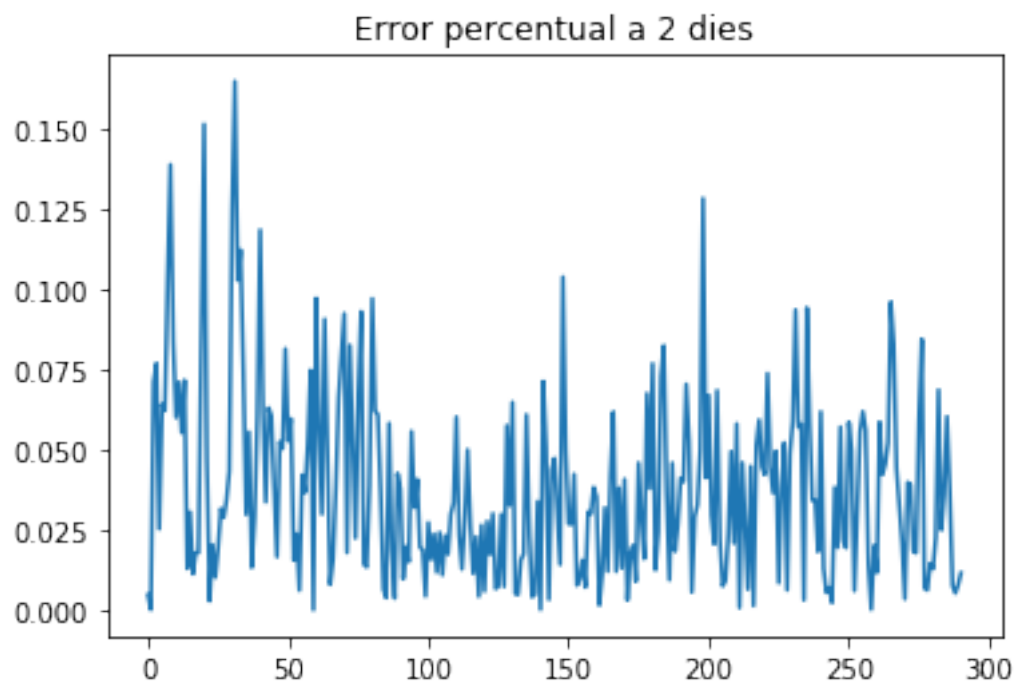


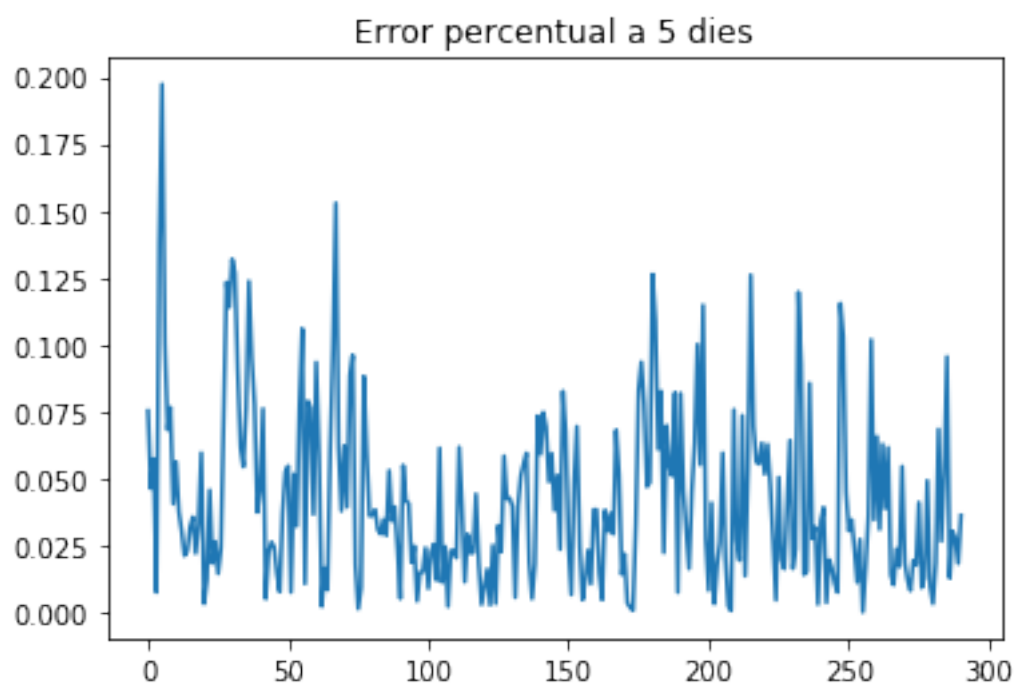
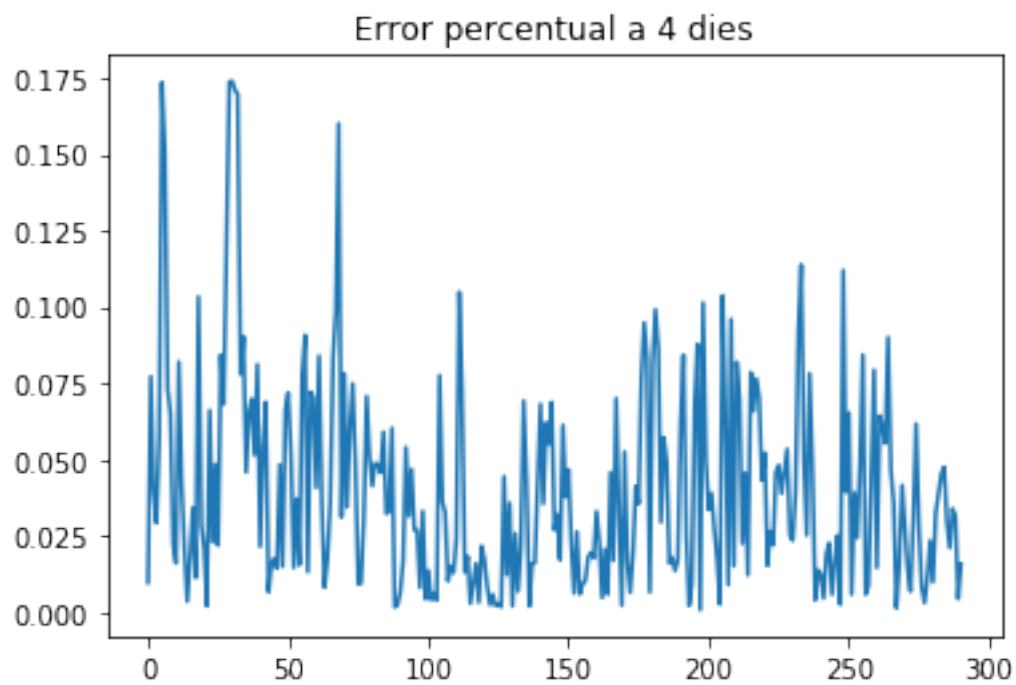
Predicció consum a 60 dies

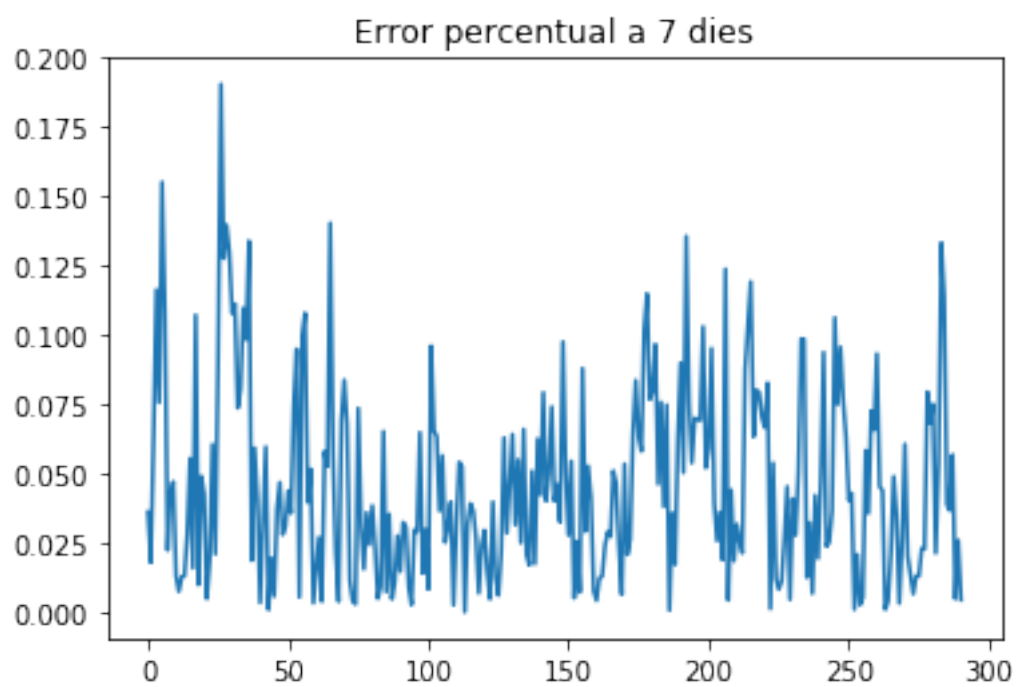
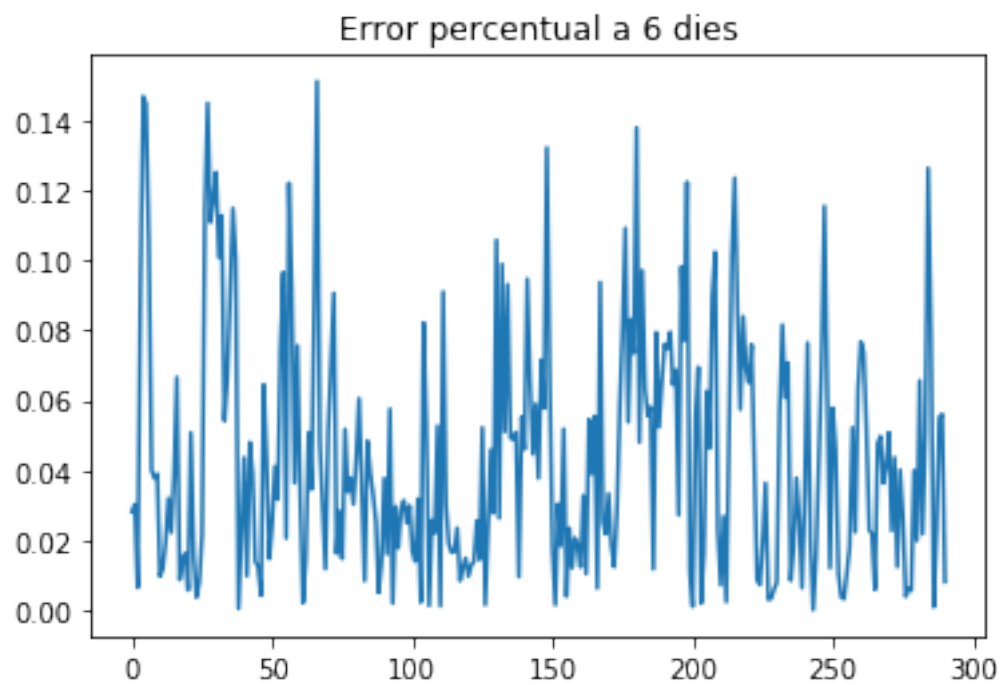


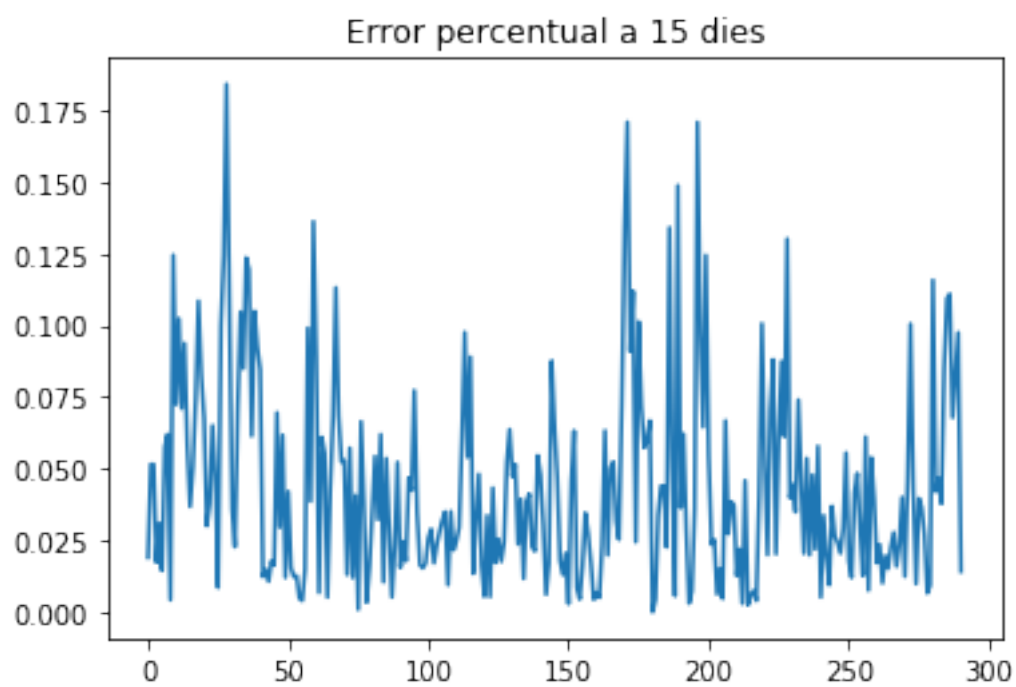
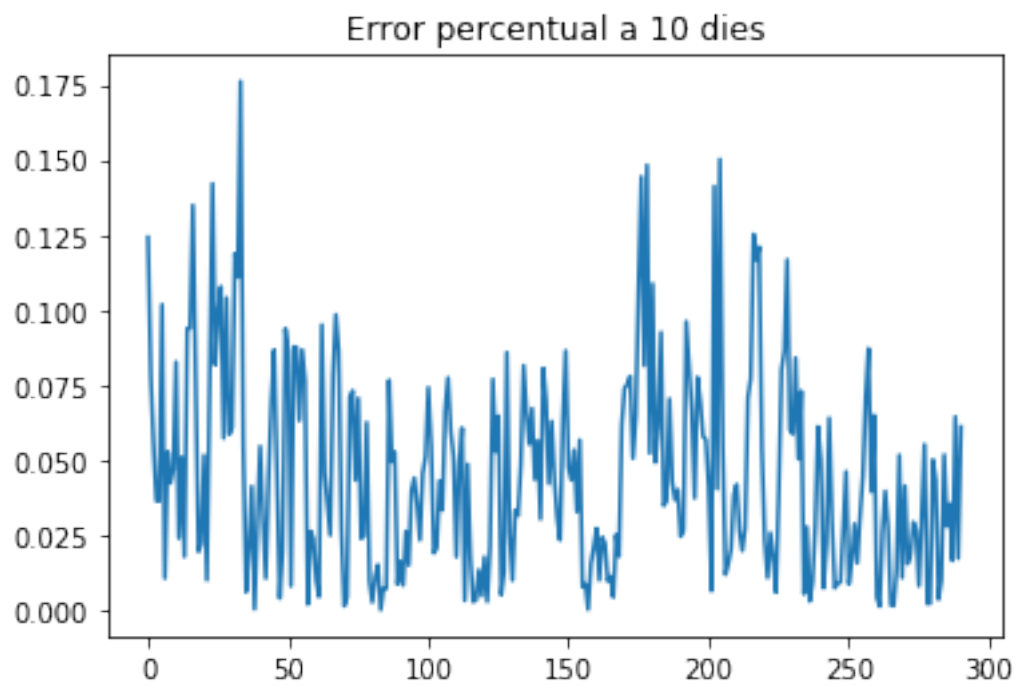
Error percentual a 1 dia

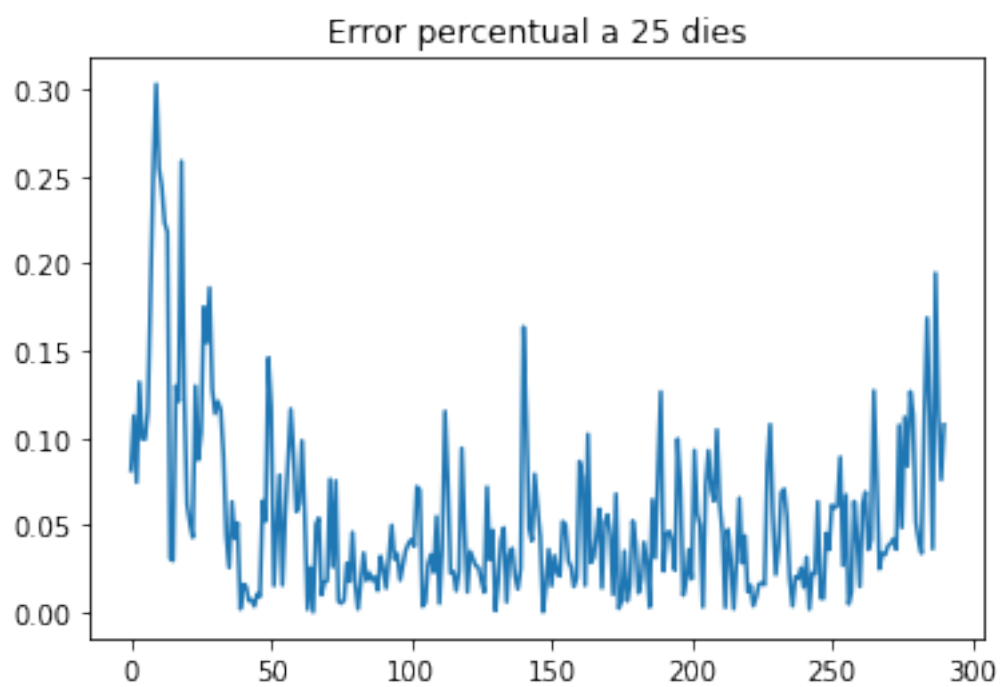
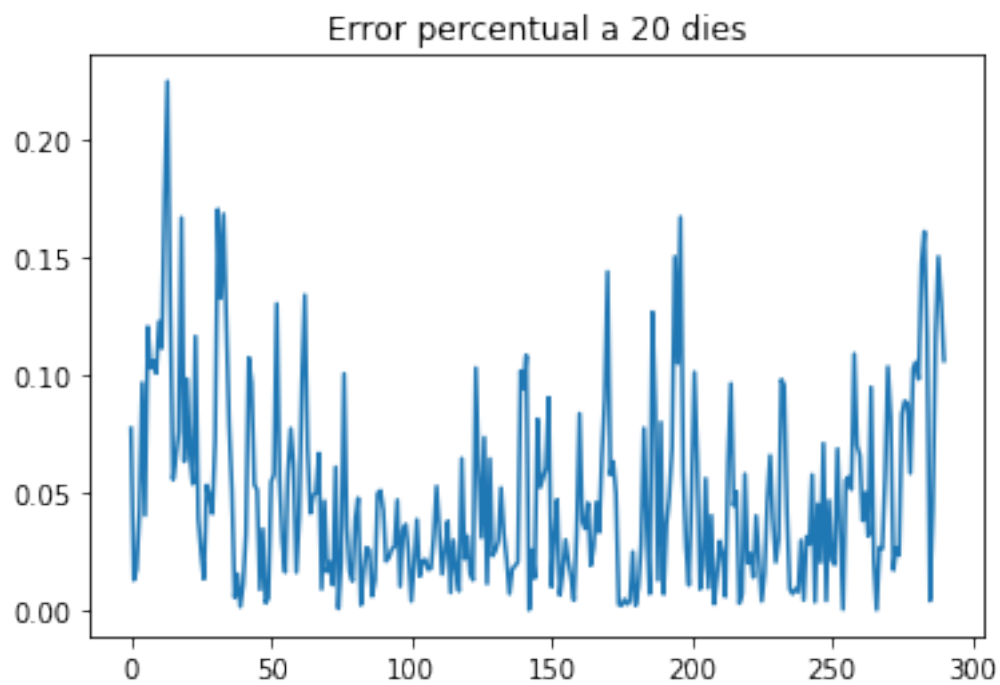




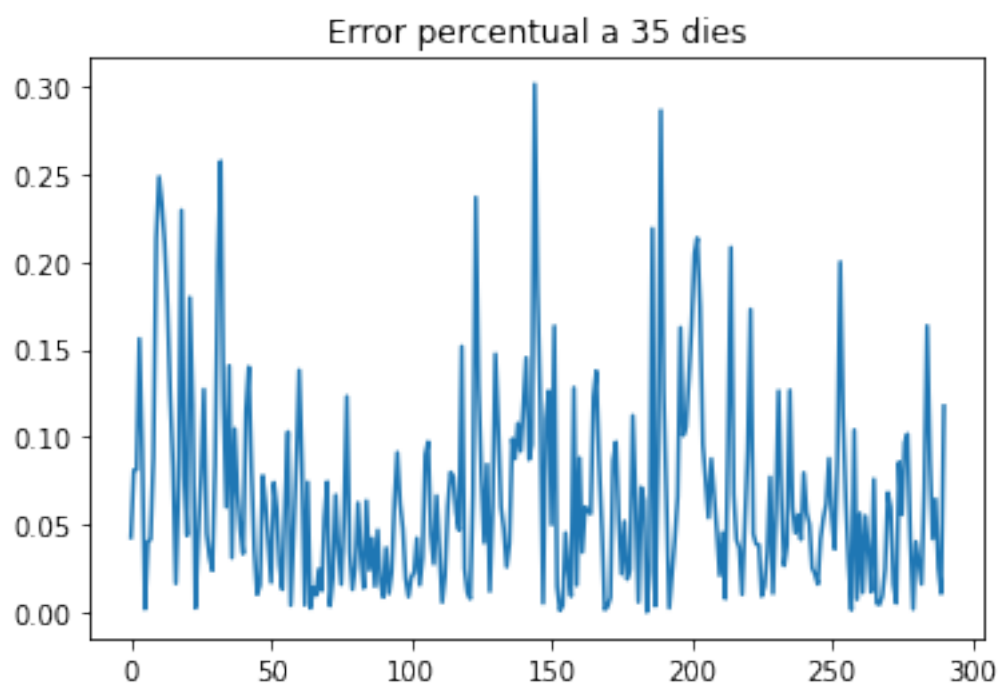
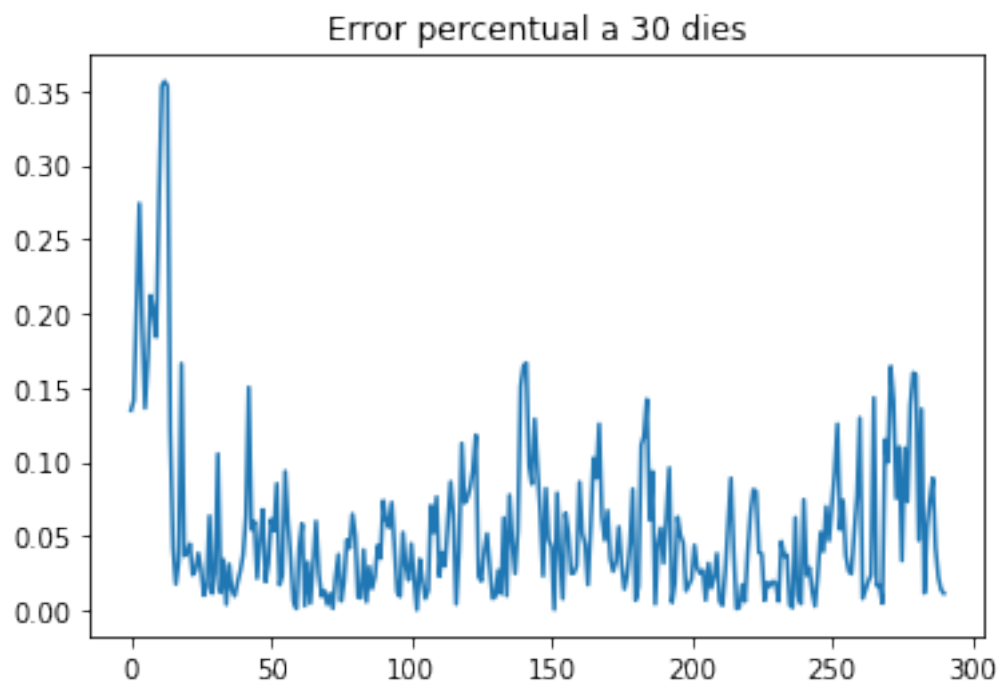


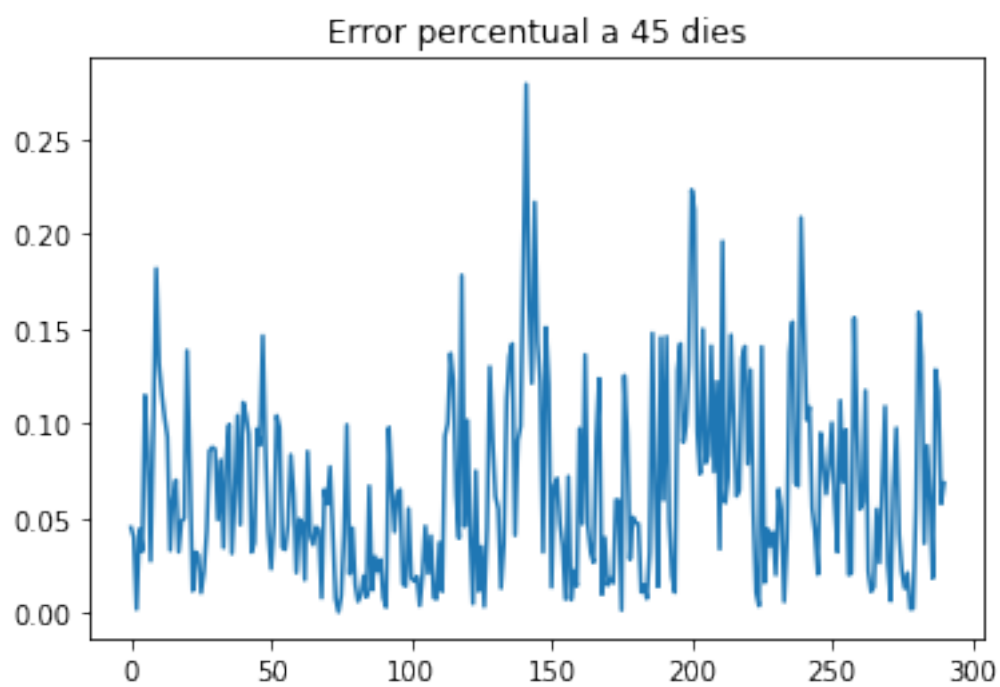
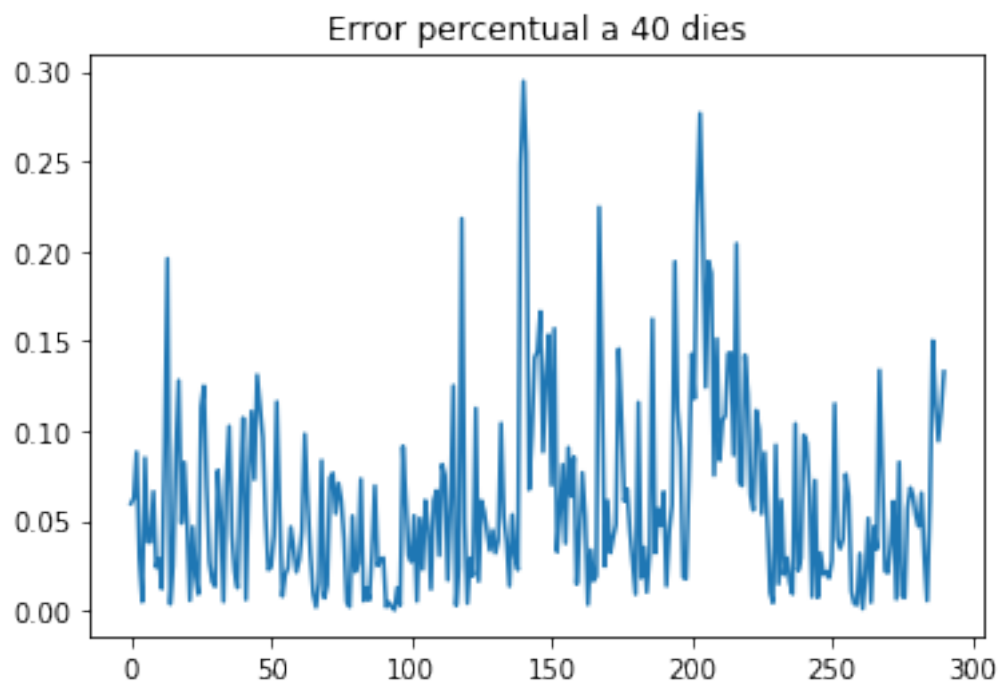


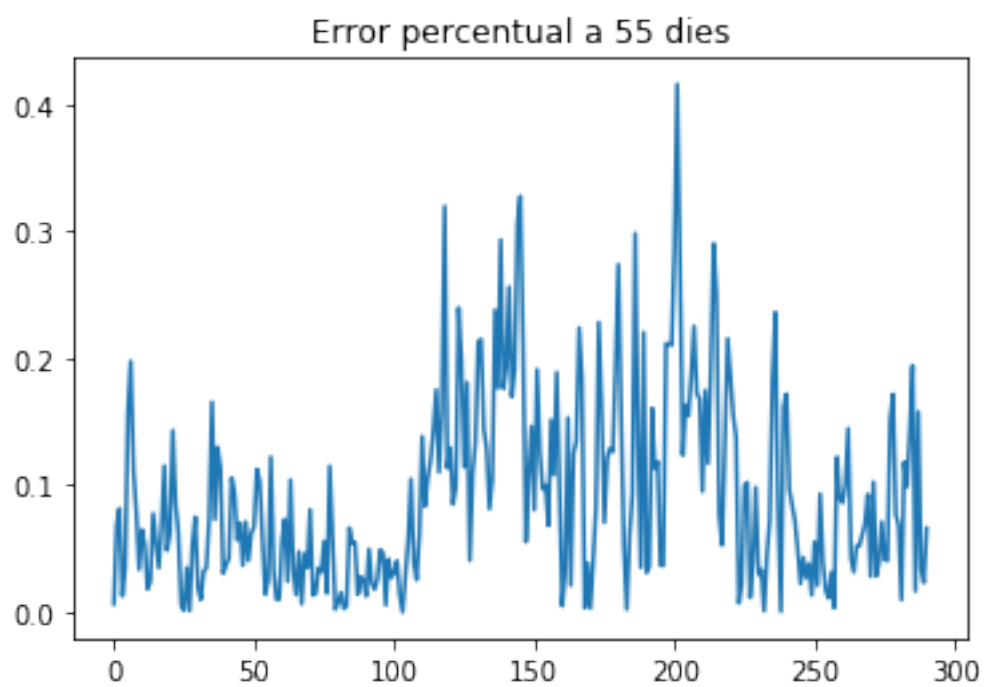
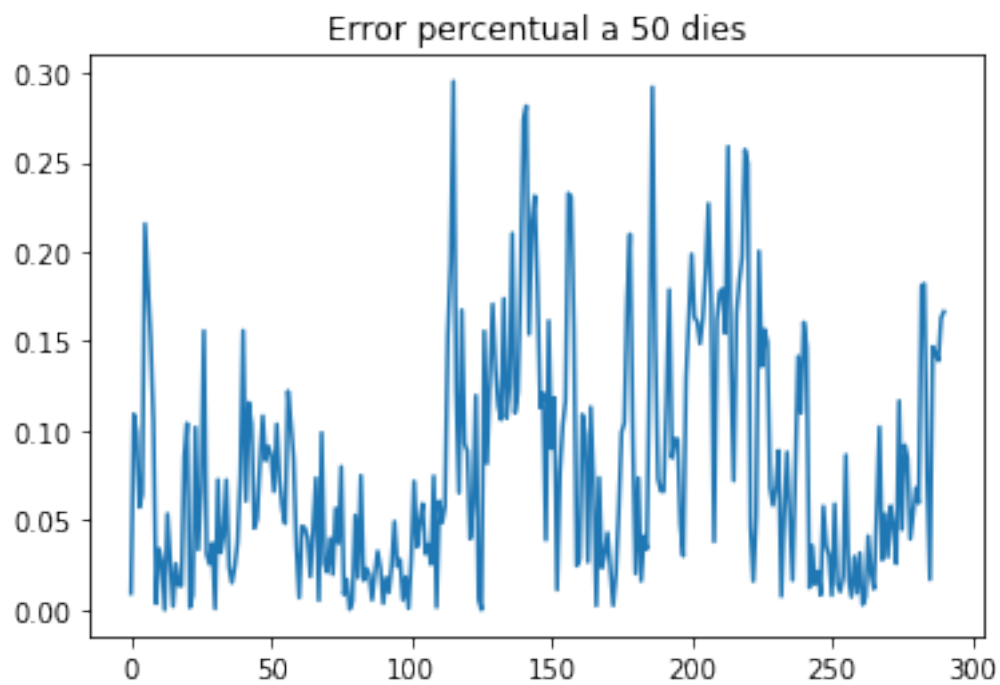


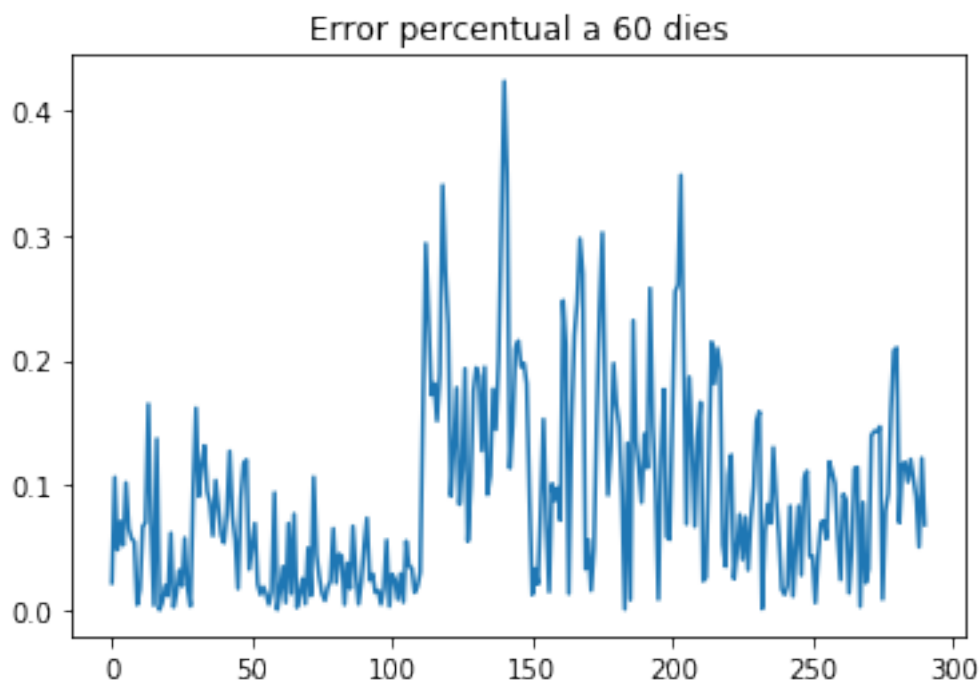












L'error mitjà a 1 dia és de 3.578364877637653 %  
 L'error mitjà a 2 dies és de 3.8088180734959605 %  
 L'error mitjà a 3 dies és de 3.9880868017708515 %  
 L'error mitjà a 4 dies és de 4.066230835399487 %  
 L'error mitjà a 5 dies és de 4.236671342071782 %  
 L'error mitjà a 6 dies és de 4.406047613275763 %  
 L'error mitjà a 7 dies és de 4.613064606611421 %  
 L'error mitjà a 8 dies és de 4.60842685480731 %  
 L'error mitjà a 9 dies és de 4.761125871966178 %  
 L'error mitjà a 10 dies és de 4.559090317026345 %  
 L'error mitjà a 11 dies és de 4.601762655912542 %  
 L'error mitjà a 12 dies és de 4.343120070942558 %  
 L'error mitjà a 13 dies és de 4.463662867831812 %  
 L'error mitjà a 14 dies és de 4.495800439919593 %  
 L'error mitjà a 15 dies és de 4.413768284611584 %  
 L'error mitjà a 16 dies és de 4.424651101470647 %  
 L'error mitjà a 17 dies és de 4.511696213918755 %  
 L'error mitjà a 18 dies és de 4.770433071407211 %  
 L'error mitjà a 19 dies és de 4.9239683445473466 %  
 L'error mitjà a 20 dies és de 4.894214428878567 %  
 L'error mitjà a 21 dies és de 5.068182364752452 %  
 L'error mitjà a 22 dies és de 5.13825391784946 %  
 L'error mitjà a 23 dies és de 4.990351099817669 %  
 L'error mitjà a 24 dies és de 5.110101921462872 %  
 L'error mitjà a 25 dies és de 5.38814011952774 %

L'error mitjà a 26 dies és de 5.268926556105512 %  
 L'error mitjà a 27 dies és de 5.79595074161711 %  
 L'error mitjà a 28 dies és de 5.639658043761658 %  
 L'error mitjà a 29 dies és de 5.521716493047065 %  
 L'error mitjà a 30 dies és de 5.549017407473326 %  
 L'error mitjà a 31 dia és de 6.389031330813144 %  
 L'error mitjà a 32 dies és de 6.42635582993137 %  
 L'error mitjà a 33 dies és de 6.472439875170774 %  
 L'error mitjà a 34 dies és de 6.902582644245202 %  
 L'error mitjà a 35 dies és de 6.703951657588317 %  
 L'error mitjà a 36 dies és de 6.663898676449636 %  
 L'error mitjà a 37 dies és de 6.583113693294758 %  
 L'error mitjà a 38 dies és de 6.29405044648471 %  
 L'error mitjà a 39 dies és de 6.422765271118778 %  
 L'error mitjà a 40 dies és de 6.180573544935269 %  
 L'error mitjà a 41 dies és de 6.4431364967241525 %  
 L'error mitjà a 42 dies és de 6.4766024414785806 %  
 L'error mitjà a 43 dies és de 6.2555392314803555 %  
 L'error mitjà a 44 dies és de 6.427071540790533 %  
 L'error mitjà a 45 dies és de 6.6264245302811355 %  
 L'error mitjà a 46 dies és de 6.447508819860199 %  
 L'error mitjà a 47 dies és de 6.238230883414947 %  
 L'error mitjà a 48 dies és de 6.593273630190143 %  
 L'error mitjà a 49 dies és de 6.990289416831466 %  
 L'error mitjà a 50 dies és de 8.095185482328223 %  
 L'error mitjà a 51 dies és de 8.440912768717862 %  
 L'error mitjà a 52 dies és de 8.637332794453508 %  
 L'error mitjà a 53 dies és de 8.584930722293516 %  
 L'error mitjà a 54 dies és de 9.059700726321696 %  
 L'error mitjà a 55 dies és de 9.216744294102472 %  
 L'error mitjà a 56 dies és de 8.984997159137546 %  
 L'error mitjà a 57 dies és de 8.94695561557581 %  
 L'error mitjà a 58 dies és de 9.07172487121218 %  
 L'error mitjà a 59 dies és de 9.202666554691943 %  
 L'error mitjà a 60 dies és de 9.2918591155622 %

In [32]: (error\_mitja1+error\_mitja2+error\_mitja3+error\_mitja4+error\_mitja5+error\_mitja6+error\_mitja7+error\_mitja8+error\_mitja9+error\_mitja10+error\_mitja11+error\_mitja12+error\_mitja13+error\_mitja14+error\_mitja15+error\_mitja16+error\_mitja17+error\_mitja18+error\_mitja19+error\_mitja20+error\_mitja21+error\_mitja22+error\_mitja23+error\_mitja24+error\_mitja25+error\_mitja26+error\_mitja27+error\_mitja28+error\_mitja29+error\_mitja30+error\_mitja31+error\_mitja32+error\_mitja33+error\_mitja34+error\_mitja35+error\_mitja36+error\_mitja37+error\_mitja38+error\_mitja39+error\_mitja40+error\_mitja41+error\_mitja42+error\_mitja43+error\_mitja44+error\_mitja45+error\_mitja46+error\_mitja47+error\_mitja48+error\_mitja49+error\_mitja50+error\_mitja51+error\_mitja52+error\_mitja53+error\_mitja54+error\_mitja55+error\_mitja56+error\_mitja57+error\_mitja58+error\_mitja59+error\_mitja60)

Out[32]: 6.050152556739976

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: