

MM3b

_Xarxa_walkforard_normalitzat_multivariate_MULTISTEP60_tempmin

walkforwardaugment-Copy2

December 21, 2019

1 Xarxa neuronal

```
In [1]: import pandas as pd
import numpy as np
from pandas import datetime
from matplotlib import pyplot as plt

import keras
from keras.models import Sequential
from keras.layers import Dense
from keras.layers import LSTM

from keras.optimizers import SGD
from sklearn.model_selection import StratifiedKFold
from scipy.stats import uniform as sp_rand
from scipy.stats import randint
from time import time
from sklearn import preprocessing
```

Using TensorFlow backend.

1.1 Consum diari total multivariate multi-step

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In [2]: daily=pd.read_csv('C:/Users/Laura/Desktop/Smart meters London/workspace R/Dades netes/1')
daily.head(5)
```

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

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

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

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

```
Out [3]:
```

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

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

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

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



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

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

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

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

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

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

```

daily_dia

```
Out [4]:
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	index	date	energy_sum	apparentTemperatureMax \
0	735	2011-11-23	6.952692	10.36
1	736	2011-11-24	8.536480	12.93
2	682	2011-11-25	9.499781	13.03
3	713	2011-11-26	10.267707	12.96
4	609	2011-11-27	10.850805	13.54
5	641	2011-11-28	9.103382	12.58
6	265	2011-11-29	9.274873	13.47
7	571	2011-11-30	8.813513	11.87
8	199	2011-12-01	9.227707	12.15
9	338	2011-12-02	10.145910	5.33
10	131	2011-12-03	10.780273	11.42
11	100	2011-12-04	12.163127	6.66
12	176	2011-12-05	10.609714	3.13
13	203	2011-12-06	11.673417	3.77
14	240	2011-12-07	10.889362	5.14
15	299	2011-12-08	11.525150	12.89
16	294	2011-12-09	11.759837	3.99
17	455	2011-12-10	12.633801	3.14
18	215	2011-12-11	13.749174	5.72
19	115	2011-12-12	11.951958	5.94
20	22	2011-12-13	11.957446	12.08
21	45	2011-12-14	12.392776	2.88
22	59	2011-12-15	12.307079	4.38
23	11	2011-12-16	13.376080	0.99
24	228	2011-12-17	13.511968	1.72
25	478	2011-12-18	14.732271	1.98
26	412	2011-12-19	13.774471	4.02
27	433	2011-12-20	12.709106	4.98
28	524	2011-12-21	12.148570	12.14
29	689	2011-12-22	11.839403	12.14
..
800	41	2014-01-29	11.800777	2.53
801	105	2014-01-30	11.685169	5.86
802	80	2014-01-31	11.857957	5.27
803	21	2014-02-01	11.710582	6.86
804	163	2014-02-02	12.078164	6.48
805	135	2014-02-03	11.280011	4.59
806	60	2014-02-04	11.095584	5.63
807	3	2014-02-05	11.415105	5.86
808	18	2014-02-06	11.445403	7.34
809	14	2014-02-07	10.972318	8.44
810	0	2014-02-08	11.569300	5.67
811	7	2014-02-09	12.202967	3.91

812	35	2014-02-10	11.264175	7.07
813	57	2014-02-11	11.452649	4.06
814	44	2014-02-12	11.679099	4.73
815	33	2014-02-13	11.285737	3.42
816	23	2014-02-14	11.816914	12.02
817	13	2014-02-15	11.490470	5.79
818	187	2014-02-16	11.582159	7.88
819	218	2014-02-17	10.979566	10.67
820	235	2014-02-18	10.781898	10.13
821	322	2014-02-19	10.674624	10.13
822	101	2014-02-20	10.573835	12.50
823	129	2014-02-21	10.518126	10.15
824	248	2014-02-22	10.776242	11.63
825	285	2014-02-23	11.480411	11.94
826	158	2014-02-24	10.411403	14.23
827	95	2014-02-25	10.294997	11.43
828	360	2014-02-26	10.202945	11.29
829	197	2014-02-27	10.356350	10.31

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

28	3.84	3	11.839403	12.254989	13.065317
29	5.37	4	12.254989	13.065317	12.949429
..
800	0.18	3	11.685169	11.857957	11.710582
801	0.61	4	11.857957	11.710582	12.078164
802	0.29	5	11.710582	12.078164	11.280011
803	1.10	6	12.078164	11.280011	11.095584
804	3.21	7	11.280011	11.095584	11.415105
805	1.96	1	11.095584	11.415105	11.445403
806	1.12	2	11.415105	11.445403	10.972318
807	1.03	3	11.445403	10.972318	11.569300
808	1.96	4	10.972318	11.569300	12.202967
809	-0.86	5	11.569300	12.202967	11.264175
810	2.19	6	12.202967	11.264175	11.452649
811	1.38	7	11.264175	11.452649	11.679099
812	0.89	1	11.452649	11.679099	11.285737
813	-0.57	2	11.679099	11.285737	11.816914
814	-1.20	3	11.285737	11.816914	11.490470
815	0.05	4	11.816914	11.490470	11.582159
816	0.45	5	11.490470	11.582159	10.979566
817	1.77	6	11.582159	10.979566	10.781898
818	-1.03	7	10.979566	10.781898	10.674624
819	2.84	1	10.781898	10.674624	10.573835
820	3.83	2	10.674624	10.573835	10.518126
821	2.65	3	10.573835	10.518126	10.776242
822	3.95	4	10.518126	10.776242	11.480411
823	0.19	5	10.776242	11.480411	10.411403
824	1.59	6	11.480411	10.411403	10.294997
825	5.53	7	10.411403	10.294997	10.202945
826	5.52	1	10.294997	10.202945	10.356350
827	3.89	2	10.202945	10.356350	NaN
828	1.67	3	10.356350	NaN	NaN
829	1.41	4	NaN	NaN	NaN

	y+4	...	weekday(t-5)	weekday(t-6)	weekday(t-7)	weekday(t-8)	\
0	10.850805	...	NaN	NaN	NaN	NaN	
1	9.103382	...	NaN	NaN	NaN	NaN	
2	9.274873	...	NaN	NaN	NaN	NaN	
3	8.813513	...	NaN	NaN	NaN	NaN	
4	9.227707	...	NaN	NaN	NaN	NaN	
5	10.145910	...	3.0	NaN	NaN	NaN	
6	10.780273	...	4.0	3.0	NaN	NaN	
7	12.163127	...	5.0	4.0	3.0	NaN	
8	10.609714	...	6.0	5.0	4.0	3.0	
9	11.673417	...	7.0	6.0	5.0	4.0	
10	10.889362	...	1.0	7.0	6.0	5.0	
11	11.525150	...	2.0	1.0	7.0	6.0	
12	11.759837	...	3.0	2.0	1.0	7.0	

13	12.633801	...	4.0	3.0	2.0	1.0
14	13.749174	...	5.0	4.0	3.0	2.0
15	11.951958	...	6.0	5.0	4.0	3.0
16	11.957446	...	7.0	6.0	5.0	4.0
17	12.392776	...	1.0	7.0	6.0	5.0
18	12.307079	...	2.0	1.0	7.0	6.0
19	13.376080	...	3.0	2.0	1.0	7.0
20	13.511968	...	4.0	3.0	2.0	1.0
21	14.732271	...	5.0	4.0	3.0	2.0
22	13.774471	...	6.0	5.0	4.0	3.0
23	12.709106	...	7.0	6.0	5.0	4.0
24	12.148570	...	1.0	7.0	6.0	5.0
25	11.839403	...	2.0	1.0	7.0	6.0
26	12.254989	...	3.0	2.0	1.0	7.0
27	13.065317	...	4.0	3.0	2.0	1.0
28	12.949429	...	5.0	4.0	3.0	2.0
29	11.065577	...	6.0	5.0	4.0	3.0
..
800	12.078164	...	5.0	4.0	3.0	2.0
801	11.280011	...	6.0	5.0	4.0	3.0
802	11.095584	...	7.0	6.0	5.0	4.0
803	11.415105	...	1.0	7.0	6.0	5.0
804	11.445403	...	2.0	1.0	7.0	6.0
805	10.972318	...	3.0	2.0	1.0	7.0
806	11.569300	...	4.0	3.0	2.0	1.0
807	12.202967	...	5.0	4.0	3.0	2.0
808	11.264175	...	6.0	5.0	4.0	3.0
809	11.452649	...	7.0	6.0	5.0	4.0
810	11.679099	...	1.0	7.0	6.0	5.0
811	11.285737	...	2.0	1.0	7.0	6.0
812	11.816914	...	3.0	2.0	1.0	7.0
813	11.490470	...	4.0	3.0	2.0	1.0
814	11.582159	...	5.0	4.0	3.0	2.0
815	10.979566	...	6.0	5.0	4.0	3.0
816	10.781898	...	7.0	6.0	5.0	4.0
817	10.674624	...	1.0	7.0	6.0	5.0
818	10.573835	...	2.0	1.0	7.0	6.0
819	10.518126	...	3.0	2.0	1.0	7.0
820	10.776242	...	4.0	3.0	2.0	1.0
821	11.480411	...	5.0	4.0	3.0	2.0
822	10.411403	...	6.0	5.0	4.0	3.0
823	10.294997	...	7.0	6.0	5.0	4.0
824	10.202945	...	1.0	7.0	6.0	5.0
825	10.356350	...	2.0	1.0	7.0	6.0
826	NaN	...	3.0	2.0	1.0	7.0
827	NaN	...	4.0	3.0	2.0	1.0
828	NaN	...	5.0	4.0	3.0	2.0
829	NaN	...	6.0	5.0	4.0	3.0

	weekday(t-9)	weekday(t-10)	weekday(t-11)	weekday(t-12)	weekday(t-13)	\
0	NaN	NaN	NaN	NaN	NaN	
1	NaN	NaN	NaN	NaN	NaN	
2	NaN	NaN	NaN	NaN	NaN	
3	NaN	NaN	NaN	NaN	NaN	
4	NaN	NaN	NaN	NaN	NaN	
5	NaN	NaN	NaN	NaN	NaN	
6	NaN	NaN	NaN	NaN	NaN	
7	NaN	NaN	NaN	NaN	NaN	
8	NaN	NaN	NaN	NaN	NaN	
9	3.0	NaN	NaN	NaN	NaN	
10	4.0	3.0	NaN	NaN	NaN	
11	5.0	4.0	3.0	NaN	NaN	
12	6.0	5.0	4.0	3.0	NaN	
13	7.0	6.0	5.0	4.0	3.0	
14	1.0	7.0	6.0	5.0	4.0	
15	2.0	1.0	7.0	6.0	5.0	
16	3.0	2.0	1.0	7.0	6.0	
17	4.0	3.0	2.0	1.0	7.0	
18	5.0	4.0	3.0	2.0	1.0	
19	6.0	5.0	4.0	3.0	2.0	
20	7.0	6.0	5.0	4.0	3.0	
21	1.0	7.0	6.0	5.0	4.0	
22	2.0	1.0	7.0	6.0	5.0	
23	3.0	2.0	1.0	7.0	6.0	
24	4.0	3.0	2.0	1.0	7.0	
25	5.0	4.0	3.0	2.0	1.0	
26	6.0	5.0	4.0	3.0	2.0	
27	7.0	6.0	5.0	4.0	3.0	
28	1.0	7.0	6.0	5.0	4.0	
29	2.0	1.0	7.0	6.0	5.0	
..	
800	1.0	7.0	6.0	5.0	4.0	
801	2.0	1.0	7.0	6.0	5.0	
802	3.0	2.0	1.0	7.0	6.0	
803	4.0	3.0	2.0	1.0	7.0	
804	5.0	4.0	3.0	2.0	1.0	
805	6.0	5.0	4.0	3.0	2.0	
806	7.0	6.0	5.0	4.0	3.0	
807	1.0	7.0	6.0	5.0	4.0	
808	2.0	1.0	7.0	6.0	5.0	
809	3.0	2.0	1.0	7.0	6.0	
810	4.0	3.0	2.0	1.0	7.0	
811	5.0	4.0	3.0	2.0	1.0	
812	6.0	5.0	4.0	3.0	2.0	
813	7.0	6.0	5.0	4.0	3.0	
814	1.0	7.0	6.0	5.0	4.0	

815	2.0	1.0	7.0	6.0	5.0
816	3.0	2.0	1.0	7.0	6.0
817	4.0	3.0	2.0	1.0	7.0
818	5.0	4.0	3.0	2.0	1.0
819	6.0	5.0	4.0	3.0	2.0
820	7.0	6.0	5.0	4.0	3.0
821	1.0	7.0	6.0	5.0	4.0
822	2.0	1.0	7.0	6.0	5.0
823	3.0	2.0	1.0	7.0	6.0
824	4.0	3.0	2.0	1.0	7.0
825	5.0	4.0	3.0	2.0	1.0
826	6.0	5.0	4.0	3.0	2.0
827	7.0	6.0	5.0	4.0	3.0
828	1.0	7.0	6.0	5.0	4.0
829	2.0	1.0	7.0	6.0	5.0

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

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

[830 rows x 122 columns]

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

```
Out [5]:
```

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

	y+6	y+7	y+8	y+9	...	weekday(t-5)	\
0	9.274873	8.813513	9.227707	10.145910	...	NaN	
1	8.813513	9.227707	10.145910	10.780273	...	NaN	

2	9.227707	10.145910	10.780273	12.163127	...	NaN
3	10.145910	10.780273	12.163127	10.609714	...	NaN
4	10.780273	12.163127	10.609714	11.673417	...	NaN

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

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

[5 rows x 117 columns]

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

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

Out [6]:

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

	y+6	y+7	y+8	y+9	...	weekday(t-5)	\
14	11.957446	12.392776	12.307079	13.376080	...	5.0	
15	12.392776	12.307079	13.376080	13.511968	...	6.0	
16	12.307079	13.376080	13.511968	14.732271	...	7.0	
17	13.376080	13.511968	14.732271	13.774471	...	1.0	
18	13.511968	14.732271	13.774471	12.709106	...	2.0	

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

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

15	7.0	6.0	5.0	4.0
16	1.0	7.0	6.0	5.0
17	2.0	1.0	7.0	6.0
18	3.0	2.0	1.0	7.0

[5 rows x 117 columns]

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

```
Out [7]:
```

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

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

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

	weekday(t-11)	weekday(t-12)	weekday(t-13)	weekday(t-14)
765	6.0	5.0	4.0	3.0
766	7.0	6.0	5.0	4.0
767	1.0	7.0	6.0	5.0
768	2.0	1.0	7.0	6.0
769	3.0	2.0	1.0	7.0

[5 rows x 117 columns]

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

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

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

```
In [11]: #Selecccionem dades per test i train
y_daily=daily_dia_norm[:,0:60]
```

```

X_daily=daily_dia_norm[:,61:117]

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

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

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

```

```

In [12]: # definim model
import tensorflow as tf
model =Sequential()
model.add(LSTM(50, activation='relu', input_shape=(14, 4)))
model.add(Dense(60))
model.compile(optimizer='adam', loss='mse', metrics=['accuracy'])

```

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

```

In [13]: 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, predictrain))
llista_scoretrain.append(trainScore )

testScore = math.sqrt(mean_squared_error(y_test, predictest))
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 [14]: #Dividim la suma de scores de test entre el nombre de prediccions per obtenir la mitja
         sumScores/(lenght-n_train)

```

```

Out[14]: 0.07001710102058187

```

```

In [15]: #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[15]: [[0.5678209066390991,
           0.5533119440078735,
           0.5758308172225952,
           0.5521742701530457,
           0.5579366683959961,
           0.5609074831008911,
           0.5505717992782593,
           0.5065244436264038,
           0.5554949641227722,
           0.5612092018127441,
           0.5547997951507568,
           0.5404134392738342,
           0.5395352840423584,

```


0.564241886138916,
0.5358576774597168,
0.5537309050559998,
0.5792564153671265,
0.5562419891357422,
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0.5520405769348145,
0.561639130115509,
0.5727259516716003,
0.5697640776634216,
0.5515589118003845,
0.553146481513977,
0.5295051336288452,
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0.5574053525924683,
0.5582073926925659,
0.5238599181175232,
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0.5207831859588623,
0.5216503739356995,
0.5535007119178772,
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0.5137890577316284,
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0.5112509727478027,
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0.4613834619522095,
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0.47642457485198975,
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0.466390460729599,
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0.42979177832603455,
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0.46045494079589844,
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```

```

In [16]: #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 [17]: 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))

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```

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: 0.047426721609315846
Error predicció 2 dia següent: 0.051477039658305745
Error predicció 3 dia següent: 0.0510570008416192
Error predicció 4 dia següent: 0.05713255024300317
Error predicció 5 dia següent: 0.05925391329625415
Error predicció 6 dia següent: 0.0610183544867185
Error predicció 7 dia següent: 0.06434462482935731
Error predicció 8 dia següent: 0.06841048649879698
Error predicció 9 dia següent: 0.06777364279281463
Error predicció 10 dia següent: 0.07073147084777413
Error predicció 11 dia següent: 0.06964998287211543
Error predicció 12 dia següent: 0.07161635987188451
Error predicció 13 dia següent: 0.07079040253621885
Error predicció 14 dia següent: 0.07047940767114583
Error predicció 15 dia següent: 0.07010867353826797
Error predicció 16 dia següent: 0.07077346232015823
Error predicció 17 dia següent: 0.07269983488038752
Error predicció 18 dia següent: 0.06914378861234487
Error predicció 19 dia següent: 0.06886230233801179
Error predicció 20 dia següent: 0.06739050148875043
Error predicció 21 dia següent: 0.06853165011164106
Error predicció 22 dia següent: 0.0666866050640707
Error predicció 23 dia següent: 0.06928965674687486
Error predicció 24 dia següent: 0.07330814378345413
Error predicció 25 dia següent: 0.07364812210983027
Error predicció 26 dia següent: 0.06918494235901879
Error predicció 27 dia següent: 0.07054092327933248
Error predicció 28 dia següent: 0.07069498757785479
Error predicció 29 dia següent: 0.07364106811652503
Error predicció 30 dia següent: 0.07214982291949486
Error predicció 31 dia següent: 0.07240320236708428
Error predicció 32 dia següent: 0.07793526783622794
Error predicció 33 dia següent: 0.08360031763760137
Error predicció 34 dia següent: 0.08038768293250438
Error predicció 35 dia següent: 0.08122098350963226
Error predicció 36 dia següent: 0.08090630894582052

```

```

Error predicció 37 dia següent: 0.07965747139839638
Error predicció 38 dia següent: 0.08204252037347057
Error predicció 39 dia següent: 0.08804437345844868
Error predicció 40 dia següent: 0.09347904616511639
Error predicció 41 dia següent: 0.08771855412286649
Error predicció 42 dia següent: 0.09095103050643714
Error predicció 43 dia següent: 0.09187188768053889
Error predicció 44 dia següent: 0.09326049386248014
Error predicció 45 dia següent: 0.09573497642081126
Error predicció 46 dia següent: 0.09962862232584871
Error predicció 47 dia següent: 0.10131628774304995
Error predicció 48 dia següent: 0.09873658077957949
Error predicció 49 dia següent: 0.09767663688958021
Error predicció 50 dia següent: 0.1018326227798295
Error predicció 51 dia següent: 0.10348051234804032
Error predicció 52 dia següent: 0.10621973183569575
Error predicció 53 dia següent: 0.10334306505863514
Error predicció 54 dia següent: 0.10547811101075967
Error predicció 55 dia següent: 0.10171243428568191
Error predicció 56 dia següent: 0.10119088287716847
Error predicció 57 dia següent: 0.10207660557976439
Error predicció 58 dia següent: 0.10147058011773248
Error predicció 59 dia següent: 0.09912403855186336
Error predicció 60 dia següent: 0.09842710510855089

```

```
In [18]: 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

```

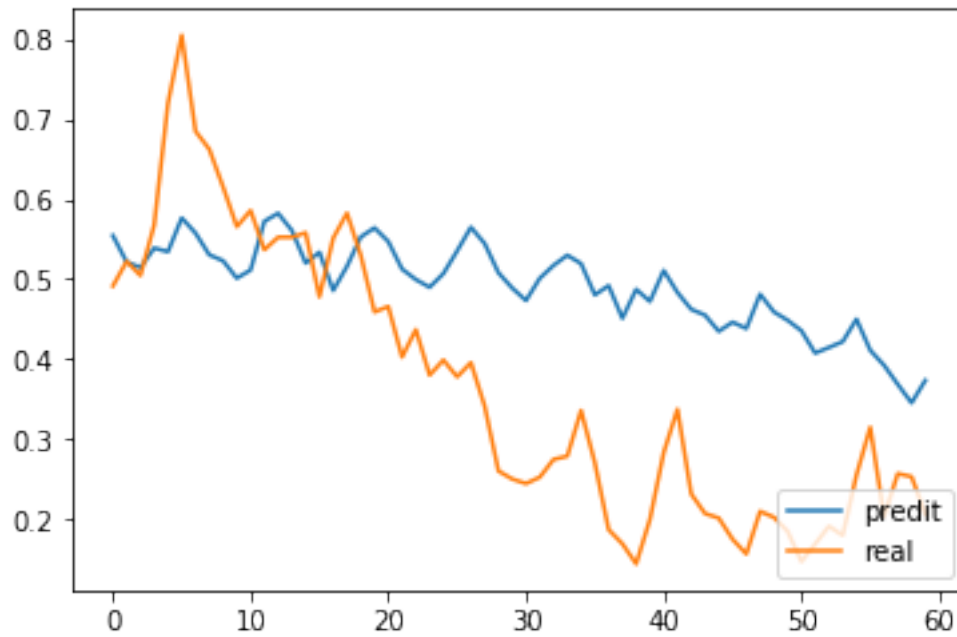
```

Out[18]: array([[0.56782091, 0.55331194, 0.57583082, ..., 0.47642457, 0.4725914 ,
    0.44762772],
    [0.52252179, 0.50576657, 0.49363908, ..., 0.42481688, 0.38412148,
    0.3689734 ],
    [0.5730083 , 0.53028417, 0.50840986, ..., 0.40142208, 0.37503225,
    0.37720346],
    ...,
    [0.57326877, 0.59619129, 0.62746567, ..., 0.55411851, 0.58007967,
    0.5348689 ],
    [0.63990432, 0.67482841, 0.61382538, ..., 0.43175235, 0.39048529,
    0.43828106],
    [0.60276884, 0.54571933, 0.53451198, ..., 0.43522379, 0.40655074,
    0.45196986]])

```

In [19]: *##Mostrem*

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



In [20]: *##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()

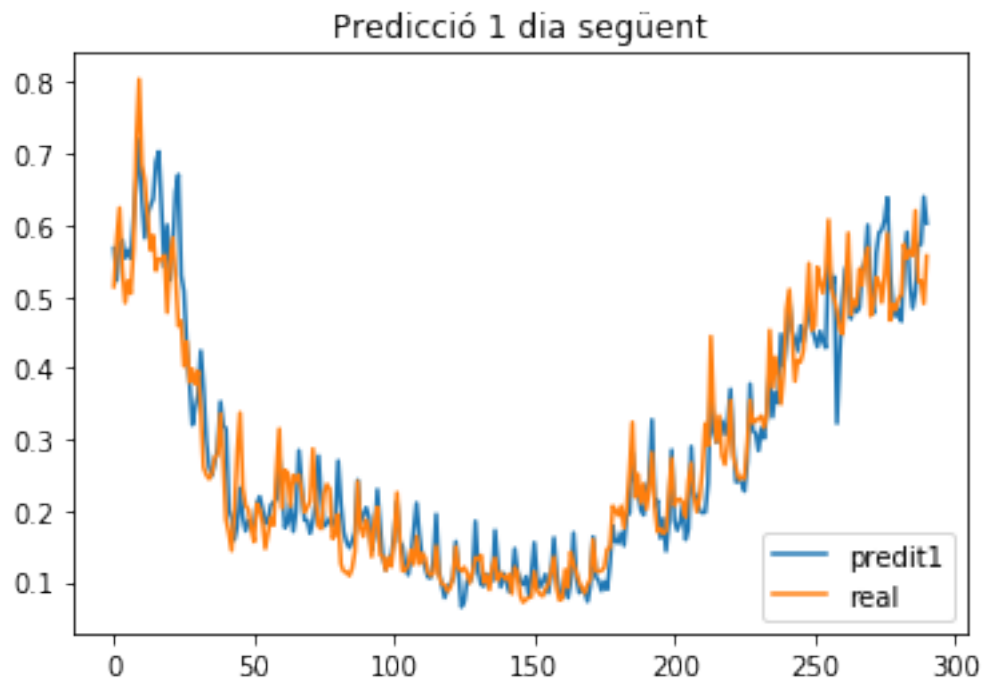
plt.plot(llista_p39, label="predit40")
plt.plot(y_daily[n_train:lenght,39], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 40 dia següent")
plt.show()

```

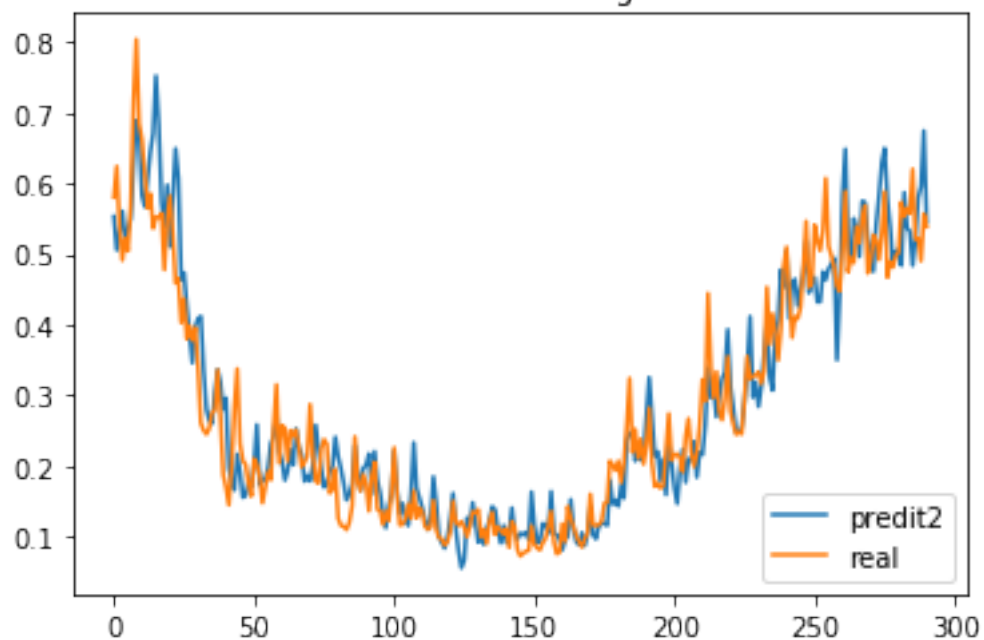


```
plt.plot(llista_p49, label="predict50")
plt.plot(y_daily[n_train:lenght,49], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 50 dia següent")
plt.show()
```

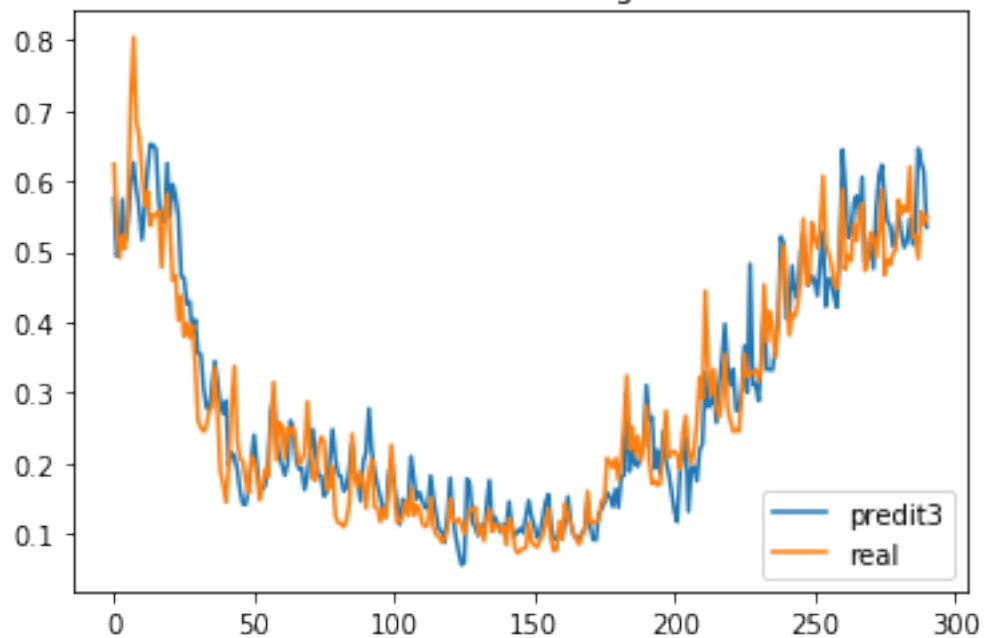
```
plt.plot(llista_p59, label="predict60")
plt.plot(y_daily[n_train:lenght,59], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 60 dia següent")
plt.show()
```



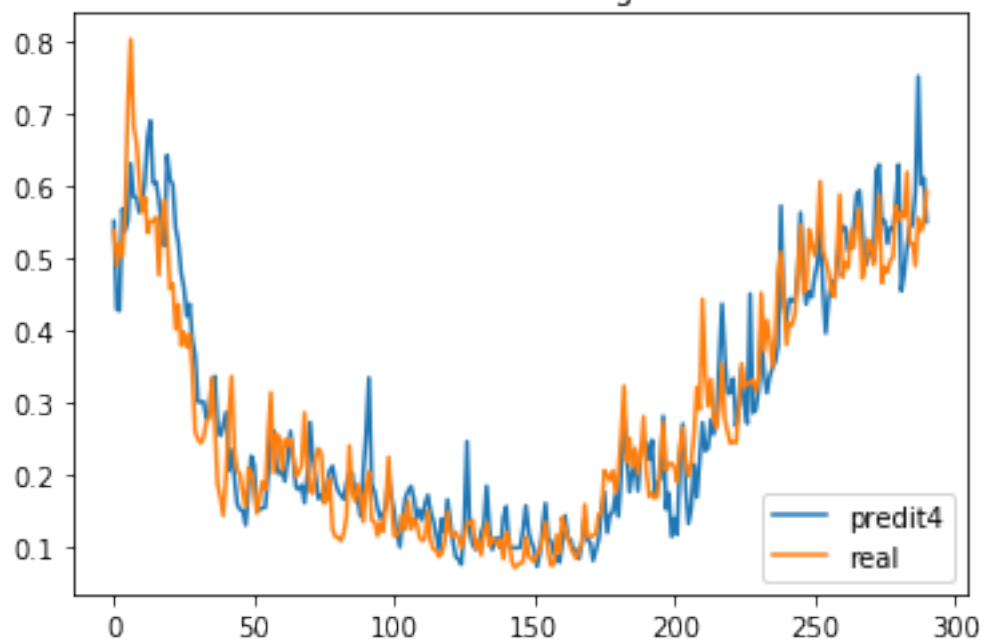
Predicció 2 dia següent



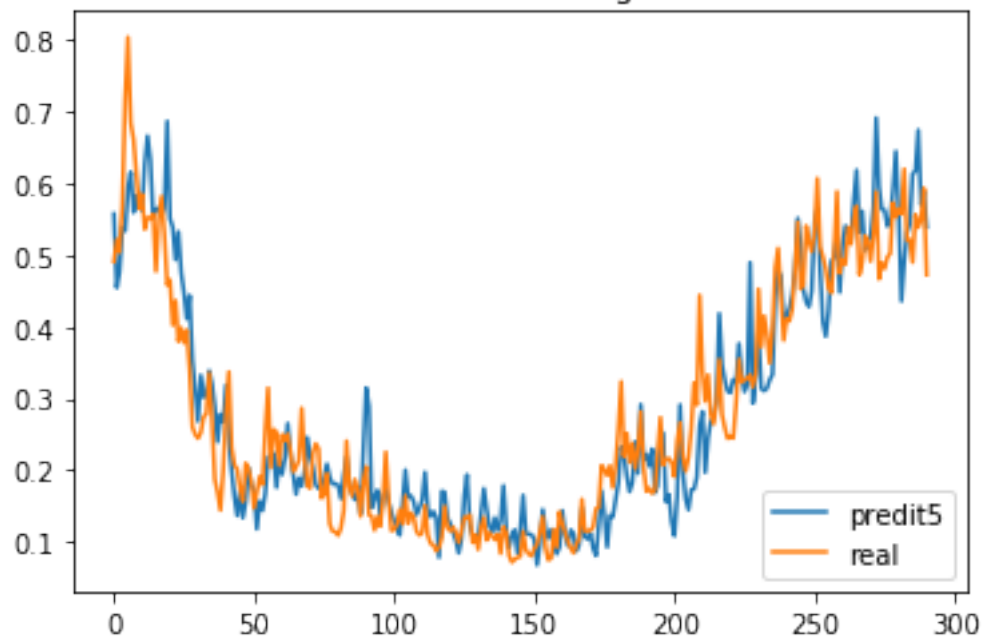
Predicció 3 dia següent



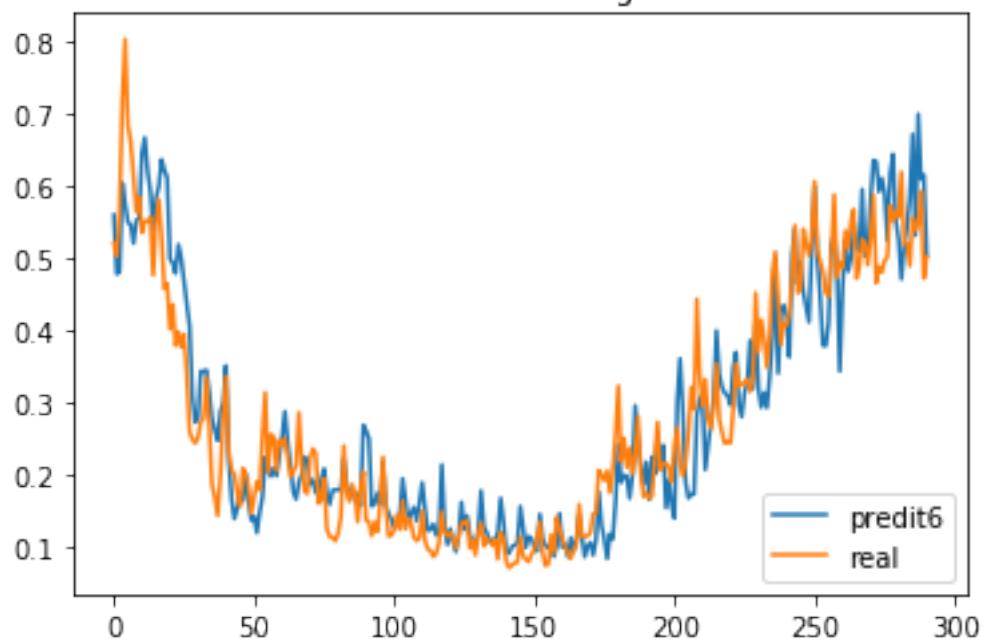
Predicció 4 dia següent



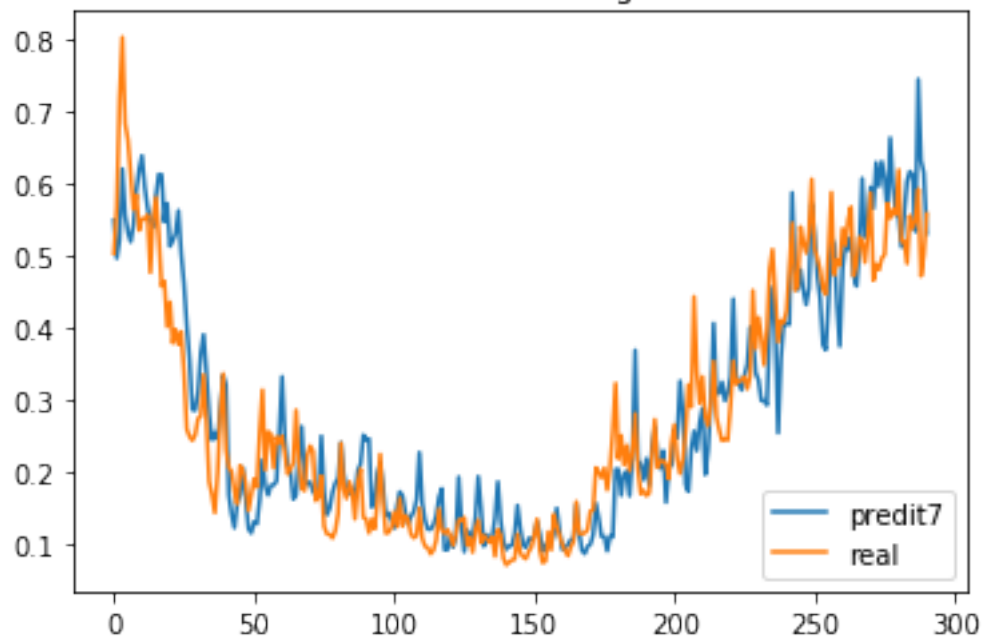
Predicció 5 dia següent



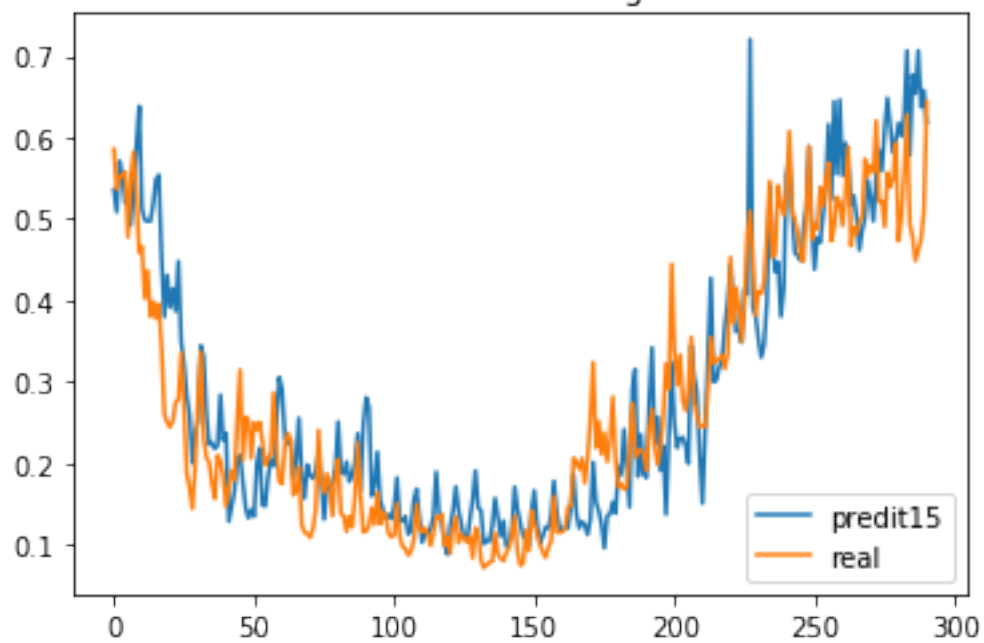
Predicció 6 dia següent



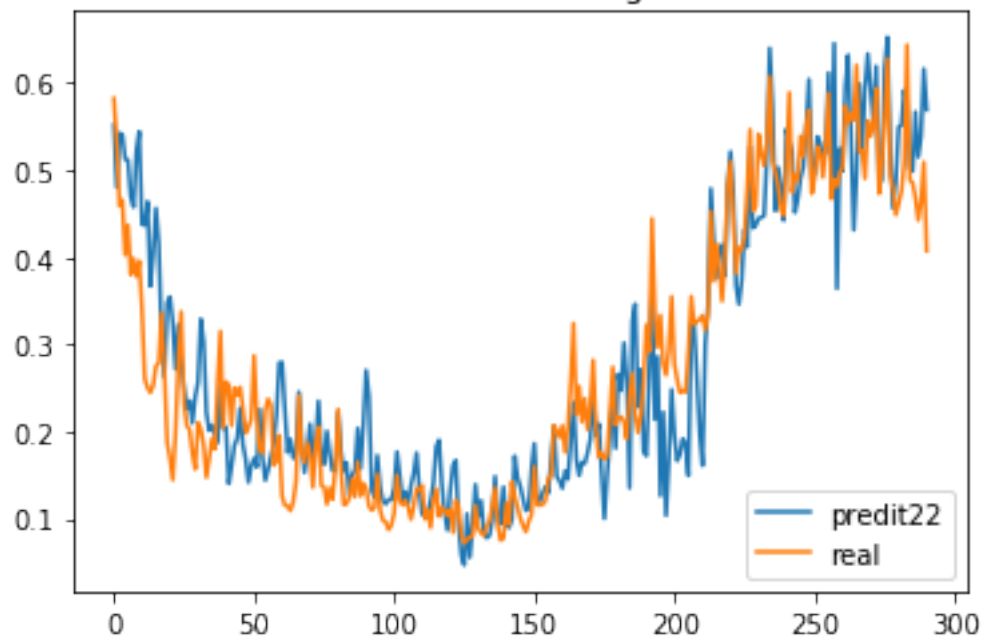
Predicció 7 dia següent



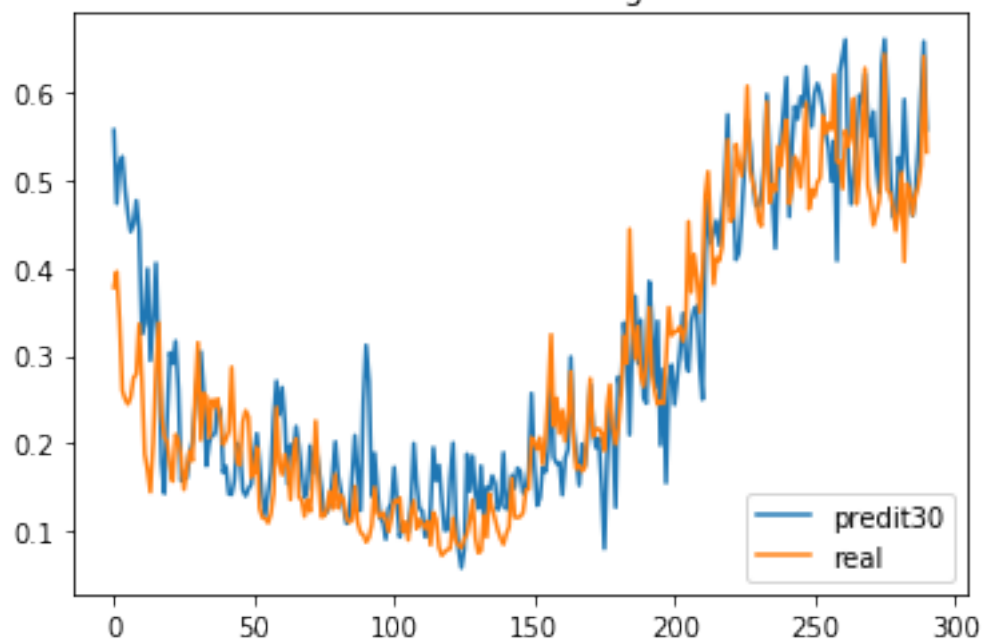
Predicció 15 dia següent



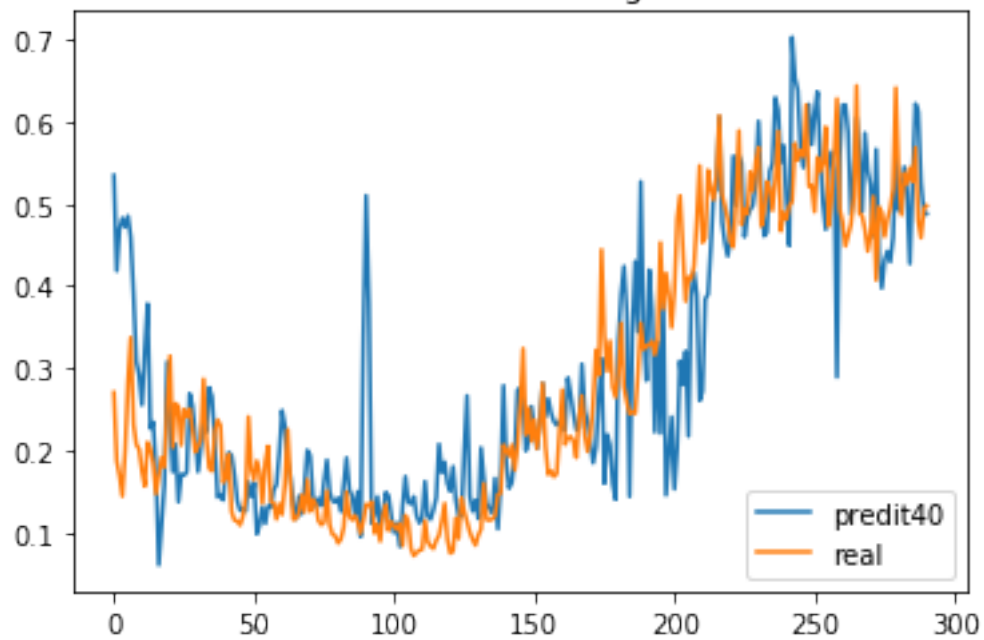
Predicció 22 dia següent



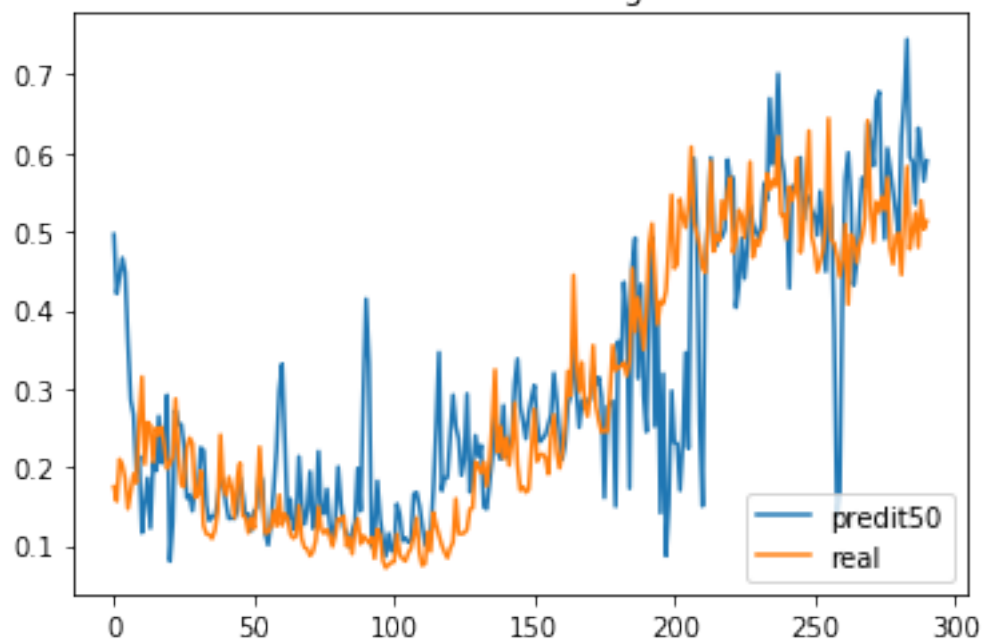
Predicció 30 dia següent



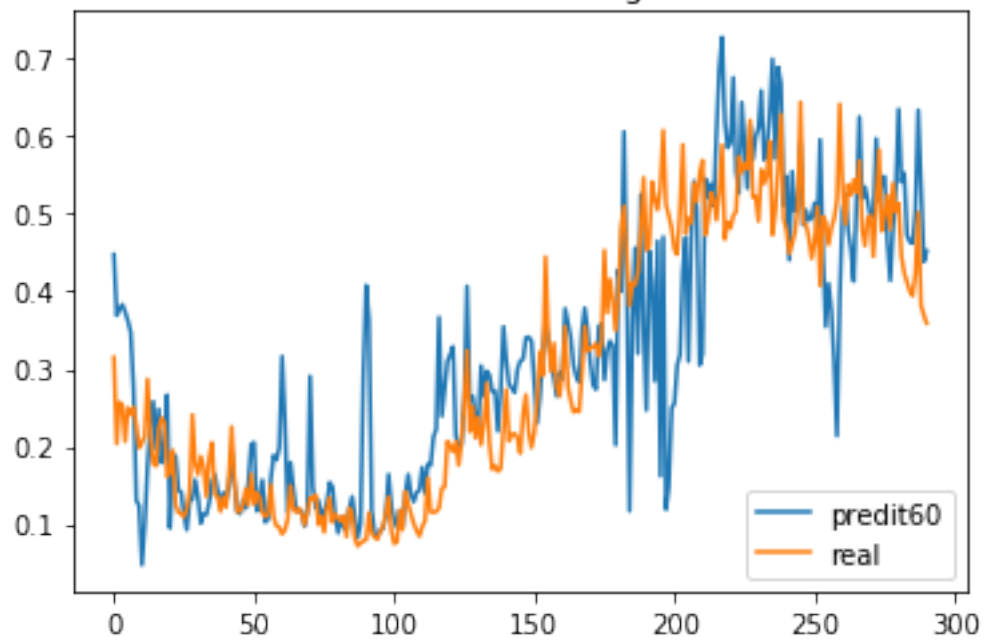
Predicció 40 dia següent



Predicció 50 dia següent



Predicció 60 dia següent



In []:

```
In [21]: llista_scores
```

```
Out[21]: [0.20690725816443048,  
          0.16409104322156653,  
          0.16588253024949856,  
          0.20172002258094204,  
          0.18660651397889208,  
          0.16200397832675467,  
          0.14884317300384659,  
          0.12422260778742679,  
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          0.11759438704825366,  
          0.11459473833640904,  
          0.12022498364192126,  
          0.13270941374209272,  
          0.1108486987845009,  
          0.1031565930441093,  
          0.11850250283093174,  
          0.11100200455693729,  
          0.08390372502191332,  
          0.07176164546164614,  
          0.13196680540226435,  
          0.12037801540238016,  
          0.10032418908064088,  
          0.09801802207125367,  
          0.10338370732310141,  
          0.07097475021295616,  
          0.06439891117922636,  
          0.06254889562178255,  
          0.06034140121440705,  
          0.04767298581461232,  
          0.049111358078464944,  
          0.05404717427273795,  
          0.08156668482650205,  
          0.07700857937968719,  
          0.052381950362754406,  
          0.04939706694639743,  
          0.05336096957713909,  
          0.05018442727781592,  
          0.04943820432986712,  
          0.054685836462966875,  
          0.052221282703434256,  
          0.057929375990219134,  
          0.05511957171750916,  
          0.04965722810646907,  
          0.052530851659172144,  
          0.04883500705124534,  
          0.04719008080173141,
```

0.04760604830393453,
0.05608280056256699,
0.059584943211428064,
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0.05173493263401263,
0.05062695320038194,
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0.018361610689654084,
0.034688527122360445,
0.027999776036813428,
0.02466370008605507,
0.022899578816446338,
0.027781336837065157,
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0.03674026252566299,
0.03626623049234273,
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0.03763963048867264,
0.03437984560382743,

0.03858807329239229,
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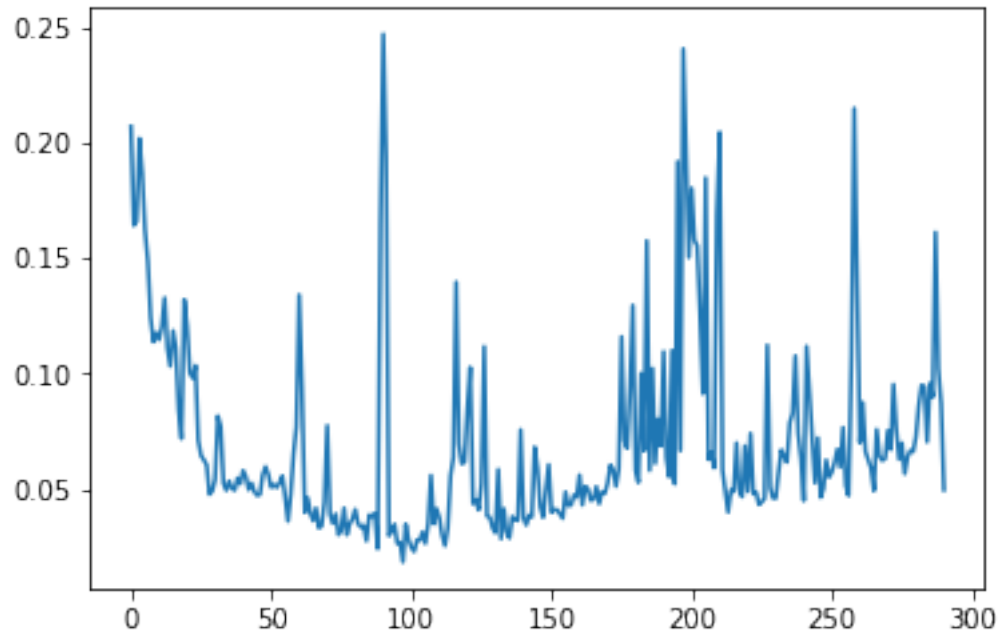
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0.05216515053737625,
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0.06656861199248748,
0.2405523271369722,
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0.15019249070476454,
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0.0659620842794308,
0.0591620026597072,
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0.2044677803203019,
0.05822648044818936,
0.04935686122240509,
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0.04941701344533141,
0.048820604761083165,
0.06990801626223359,
0.04955579930254291,
0.04659691739298894,
0.0686118506166781,
0.048887607641272694,
0.07402256220084555,
0.047807963529177426,
0.04849853116410454,
0.043196099024235726,
0.04436469342286508,
0.04587677140501921,
0.11224430899077616,
0.05053096541346028,
0.046076124411064845,
0.04595353799342137,
0.0572129451585821,
0.06686724966092739,
0.06400741253026847,
0.06161358476155289,
0.07871173148563382,
0.08277413104506483,
0.10760642886809704,

0.07407345818619358,
0.06312749924064989,
0.044890712281280935,
0.11173638328234292,
0.09243023083783646,
0.07482441170124608,
0.052593809698071474,
0.07210927760176605,
0.046365169914033236,
0.050137277419472805,
0.06250668504481986,
0.05505572875138787,
0.05734549244355712,
0.06149842221851509,
0.06720376716865331,
0.05941992146647819,
0.07658210138934961,
0.0514113924729375,
0.04709021088541463,
0.10755269699512598,
0.2147941319299876,
0.13973764048699186,
0.07003573331249725,
0.0874749097635485,
0.06618609307907582,
0.06267657966590906,
0.05902091640280361,
0.04925048784867637,
0.07575711726257985,
0.06428058331321279,
0.062313658334156564,
0.06311530166625824,
0.0752412219569968,
0.0669961646957876,
0.09526375217718105,
0.07585070976226879,
0.06280598626886219,
0.06986999407009922,
0.056566924028220354,
0.06379846248586912,
0.06661301448701994,
0.06604761360135046,
0.07249469517738506,
0.08604367242845284,
0.09489255349634919,
0.09440291777141359,
0.0703653465517379,
0.0957095636994161,

```
0.08975218176887005,  
0.16111512973495667,  
0.10213271233374283,  
0.08694223179173806,  
0.04954961042673254]
```

```
In [22]: plt.plot(llista_scores)
```

```
Out[22]: [<matplotlib.lines.Line2D at 0x14fc48de5f8>]
```



```
In [23]: prova=daily_dia.iloc[n_train:lenght]  
prova  
#len(predis)  
#lenght-n_train  
#prova['predi']=predis  
prova['predi1']=llista_p0  
prova['predi2']=llista_p1  
prova['predi3']=llista_p2  
prova['predi4']=llista_p3  
prova['predi5']=llista_p4  
prova['predi6']=llista_p5  
prova['predi7']=llista_p6  
prova['predi8']=llista_p7  
prova['predi9']=llista_p8  
prova['predi10']=llista_p9  
prova['predi11']=llista_p10
```

```
prova['predi12']=llista_p11
prova['predi13']=llista_p12
prova['predi14']=llista_p13
prova['predi15']=llista_p14
prova['predi16']=llista_p15
prova['predi17']=llista_p16
prova['predi18']=llista_p17
prova['predi19']=llista_p18
prova['predi20']=llista_p19
prova['predi21']=llista_p20
prova['predi22']=llista_p21
prova['predi23']=llista_p22
prova['predi24']=llista_p23
prova['predi25']=llista_p24
prova['predi26']=llista_p25
prova['predi27']=llista_p26
prova['predi28']=llista_p27
prova['predi29']=llista_p28
prova['predi30']=llista_p29
prova['predi31']=llista_p30
prova['predi32']=llista_p31
prova['predi33']=llista_p32
prova['predi34']=llista_p33
prova['predi35']=llista_p34
prova['predi36']=llista_p35
prova['predi37']=llista_p36
prova['predi38']=llista_p37
prova['predi39']=llista_p38
prova['predi40']=llista_p39
prova['predi41']=llista_p40
prova['predi42']=llista_p41
prova['predi43']=llista_p42
prova['predi44']=llista_p43
prova['predi45']=llista_p44
prova['predi46']=llista_p45
prova['predi47']=llista_p46
prova['predi48']=llista_p47
prova['predi49']=llista_p48
prova['predi50']=llista_p49
prova['predi51']=llista_p50
prova['predi52']=llista_p51
prova['predi53']=llista_p52
prova['predi54']=llista_p53
prova['predi55']=llista_p54
prova['predi56']=llista_p55
prova['predi57']=llista_p56
prova['predi58']=llista_p57
prova['predi59']=llista_p58
```

```
prova['predi60']=llista_p59
```

```
prova['y1']=y_daily[n_train:lenght,0]
prova['y2']=y_daily[n_train:lenght,1]
prova['y3']=y_daily[n_train:lenght,2]
prova['y4']=y_daily[n_train:lenght,3]
prova['y5']=y_daily[n_train:lenght,4]
prova['y6']=y_daily[n_train:lenght,5]
prova['y7']=y_daily[n_train:lenght,6]
prova['y8']=y_daily[n_train:lenght,7]
prova['y9']=y_daily[n_train:lenght,8]
prova['y10']=y_daily[n_train:lenght,9]
prova['y11']=y_daily[n_train:lenght,10]
prova['y12']=y_daily[n_train:lenght,11]
prova['y13']=y_daily[n_train:lenght,12]
prova['y14']=y_daily[n_train:lenght,13]
prova['y15']=y_daily[n_train:lenght,14]
prova['y16']=y_daily[n_train:lenght,15]
prova['y17']=y_daily[n_train:lenght,16]
prova['y18']=y_daily[n_train:lenght,17]
prova['y19']=y_daily[n_train:lenght,18]
prova['y20']=y_daily[n_train:lenght,19]
prova['y21']=y_daily[n_train:lenght,20]
prova['y22']=y_daily[n_train:lenght,21]
prova['y23']=y_daily[n_train:lenght,22]
prova['y24']=y_daily[n_train:lenght,23]
prova['y25']=y_daily[n_train:lenght,24]
prova['y26']=y_daily[n_train:lenght,25]
prova['y27']=y_daily[n_train:lenght,26]
prova['y28']=y_daily[n_train:lenght,27]
prova['y29']=y_daily[n_train:lenght,28]
prova['y30']=y_daily[n_train:lenght,29]
```

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

```

prova['y44']=y_daily[n_train:lenght,23]
prova['y45']=y_daily[n_train:lenght,24]
prova['y46']=y_daily[n_train:lenght,25]
prova['y47']=y_daily[n_train:lenght,26]
prova['y48']=y_daily[n_train:lenght,27]
prova['y49']=y_daily[n_train:lenght,28]
prova['y50']=y_daily[n_train:lenght,19]
prova['y51']=y_daily[n_train:lenght,20]
prova['y52']=y_daily[n_train:lenght,21]
prova['y53']=y_daily[n_train:lenght,22]
prova['y54']=y_daily[n_train:lenght,23]
prova['y55']=y_daily[n_train:lenght,24]
prova['y56']=y_daily[n_train:lenght,25]
prova['y57']=y_daily[n_train:lenght,26]
prova['y58']=y_daily[n_train:lenght,27]
prova['y59']=y_daily[n_train:lenght,28]
prova['y60']=y_daily[n_train:lenght,29]

```

```

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

```

```

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

```

```

prova2=prova[['predi15','predi16','predi17','predi18','predi19','predi20','predi21','predi22']]

```

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>

```
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```

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

```
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```

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

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

A value is trying to be set on a copy of a slice from a DataFrame.

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

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

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

A value is trying to be set on a copy of a slice from a DataFrame.

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

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

In [24]: *#Tornem valors a normals*

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

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

```
llista29=list()  
llista30=list()
```

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

```
llistay1=list()  
llistay2=list()  
llistay3=list()  
llistay4=list()  
llistay5=list()  
llistay6=list()  
llistay7=list()  
llistay8=list()  
llistay9=list()  
llistay10=list()  
llistay11=list()  
llistay12=list()  
llistay13=list()
```

```
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])

```

```
l1listay10.append(predi[i][23])
l1listay11.append(predi[i][24])
l1listay12.append(predi[i][25])
l1listay13.append(predi[i][26])
l1listay14.append(predi[i][27])
l1listay15.append(predi[i][28])
l1listay16.append(predi[i][29])
l1listay17.append(predi[i][30])
l1listay18.append(predi[i][31])
l1listay19.append(predi[i][32])
l1listay20.append(predi[i][33])
l1listay21.append(predi[i][34])
l1listay22.append(predi[i][35])
l1listay23.append(predi[i][36])
l1listay24.append(predi[i][37])
l1listay25.append(predi[i][38])
l1listay26.append(predi[i][39])
l1listay27.append(predi[i][40])
l1listay28.append(predi[i][41])
l1listay29.append(predi[i][42])
l1listay30.append(predi[i][43])
```

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

```
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=l1listay21[i] - l1lista21[i]
valorabs21=math.fabs(valor21)
valorrespecte21=valorabs21/l1listay21[i]
l1lista_errorsres21.append(valorrespecte21)

```

```

valor22=l1listay22[i] - l1lista22[i]
valorabs22=math.fabs(valor22)
valorrespecte22=valorabs22/l1listay22[i]
l1lista_errorsres22.append(valorrespecte22)

```

```

valor23=l1listay23[i] - l1lista23[i]
valorabs23=math.fabs(valor23)
valorrespecte23=valorabs23/l1listay23[i]
l1lista_errorsres23.append(valorrespecte23)

```

```

valor24=l1listay24[i] - l1lista24[i]
valorabs24=math.fabs(valor24)
valorrespecte24=valorabs24/l1listay24[i]
l1lista_errorsres24.append(valorrespecte24)

```

```

valor26=l1listay26[i] - l1lista26[i]
valorabs26=math.fabs(valor26)
valorrespecte26=valorabs26/l1listay26[i]
l1lista_errorsres26.append(valorrespecte26)

```

```

valor27=l1listay27[i] - l1lista27[i]
valorabs27=math.fabs(valor27)
valorrespecte27=valorabs27/l1listay27[i]
l1lista_errorsres27.append(valorrespecte27)

```

```

valor28=l1listay28[i] - l1lista28[i]
valorabs28=math.fabs(valor28)
valorrespecte28=valorabs28/l1listay28[i]
l1lista_errorsres28.append(valorrespecte28)

```

```

valor29=l1listay29[i] - l1lista29[i]
valorabs29=math.fabs(valor29)
valorrespecte29=valorabs29/l1listay29[i]
l1lista_errorsres29.append(valorrespecte29)

```

```

valor31=l1listay31[i] - l1lista31[i]
valorabs31=math.fabs(valor31)
valorrespecte31=valorabs31/l1listay31[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=l1stay43[i] - llista43[i]
valorabs43=math.fabs(valor43)
valorrespecte43=valorabs43/l1stay43[i]
llista_errorsres43.append(valorrespecte43)

valor44=l1stay44[i] - llista44[i]
valorabs44=math.fabs(valor44)
valorrespecte44=valorabs44/l1stay44[i]
llista_errorsres44.append(valorrespecte44)

valor46=l1stay46[i] - llista46[i]
valorabs46=math.fabs(valor46)
valorrespecte46=valorabs46/l1stay46[i]
llista_errorsres46.append(valorrespecte46)

valor47=l1stay47[i] - llista47[i]
valorabs47=math.fabs(valor47)
valorrespecte47=valorabs47/l1stay47[i]
llista_errorsres47.append(valorrespecte47)

valor48=l1stay48[i] - llista48[i]
valorabs48=math.fabs(valor48)
valorrespecte48=valorabs48/l1stay48[i]
llista_errorsres48.append(valorrespecte48)

valor49=l1stay49[i] - llista49[i]
valorabs49=math.fabs(valor49)
valorrespecte49=valorabs49/l1stay49[i]
llista_errorsres49.append(valorrespecte49)


valor51=l1stay51[i] - llista51[i]
valorabs51=math.fabs(valor51)
valorrespecte51=valorabs51/l1stay51[i]
llista_errorsres51.append(valorrespecte51)

valor52=l1stay52[i] - llista52[i]
valorabs52=math.fabs(valor52)
valorrespecte52=valorabs52/l1stay52[i]
llista_errorsres52.append(valorrespecte52)

valor53=l1stay53[i] - llista53[i]
valorabs53=math.fabs(valor53)
valorrespecte53=valorabs53/l1stay53[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
```

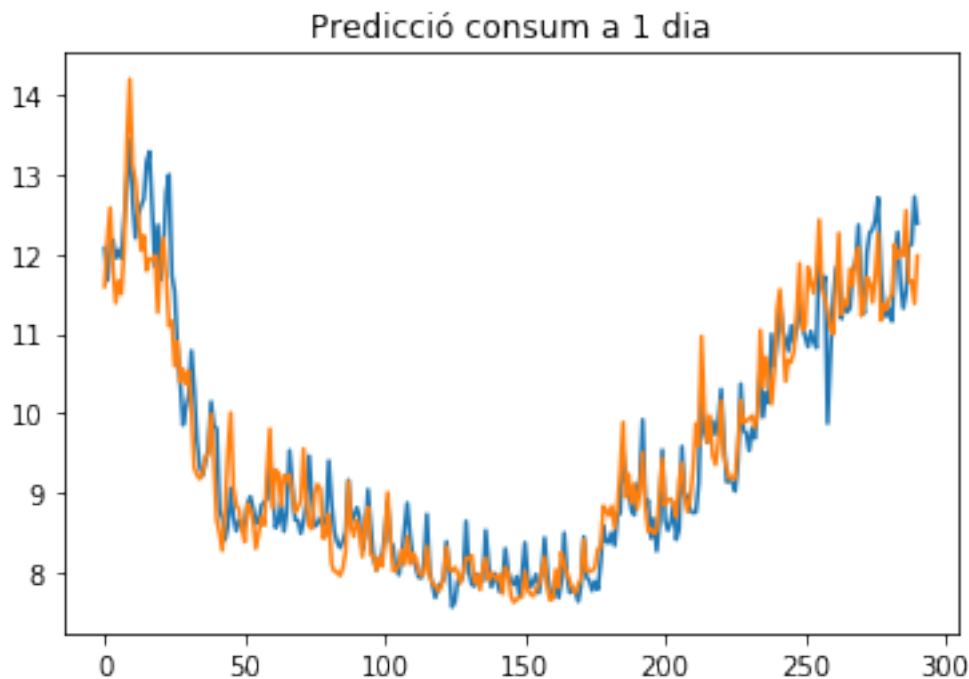
```
print("L'error mitjà a 1 dia és de {} % " .format(error_mitja1))
print("L'error mitjà a 2 dies és de {} % " .format(error_mitja2))
print("L'error mitjà a 3 dies és de {} % " .format(error_mitja3))
print("L'error mitjà a 4 dies és de {} % " .format(error_mitja4))
print("L'error mitjà a 5 dies és de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

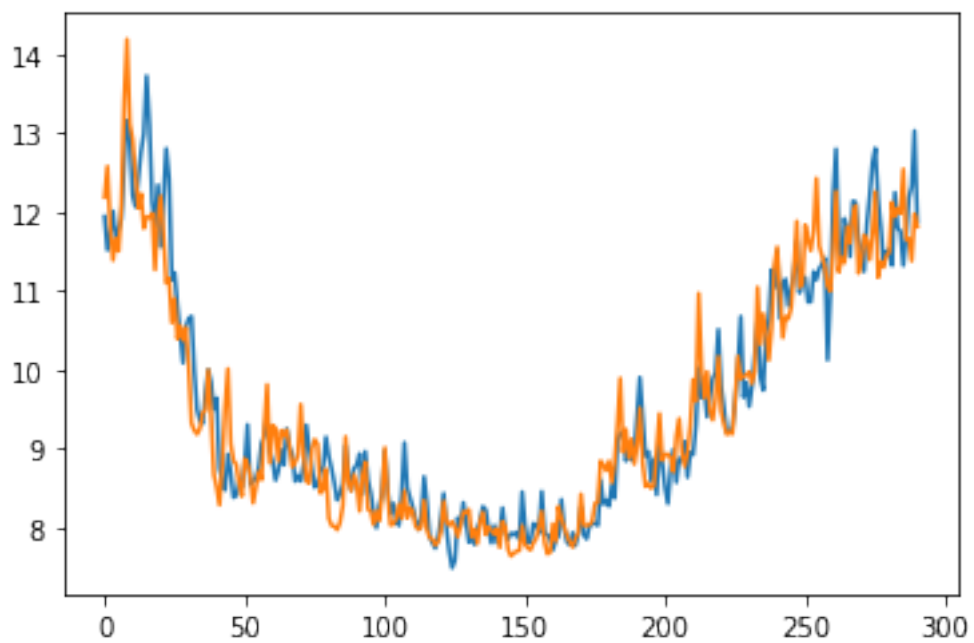
```

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))

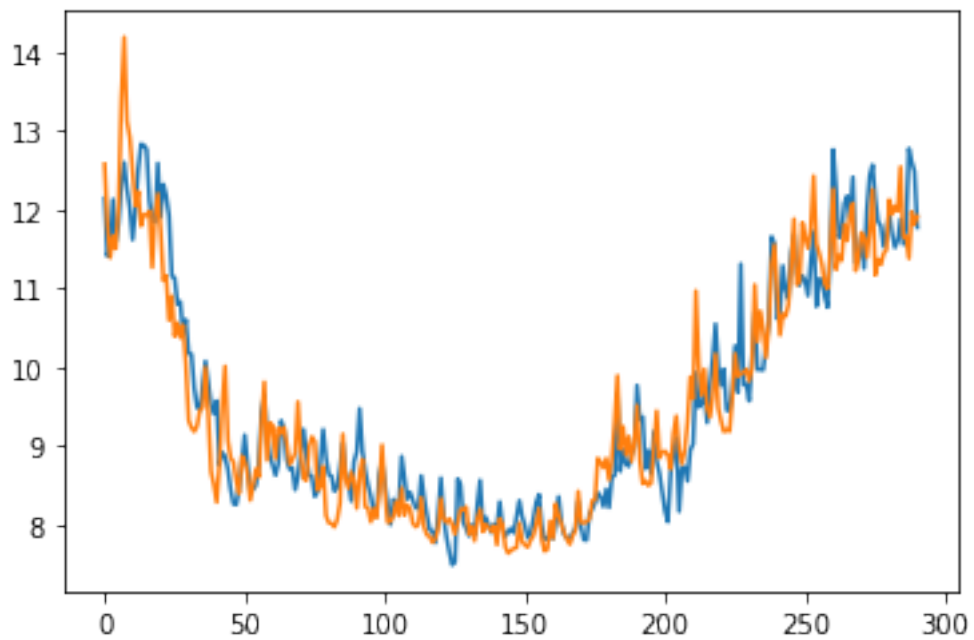
```



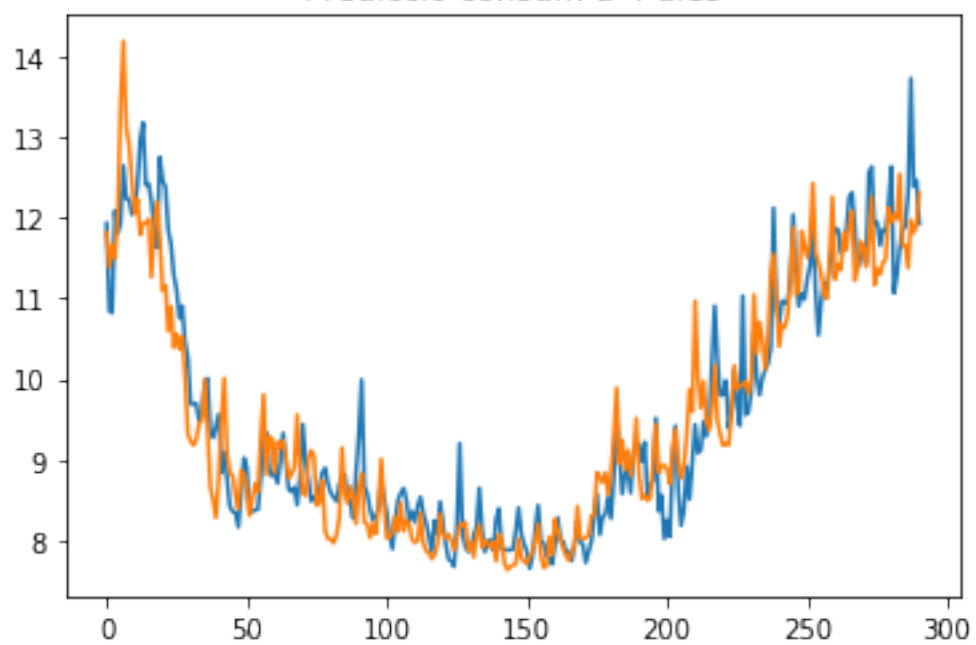
Predicció consum a 2 dies



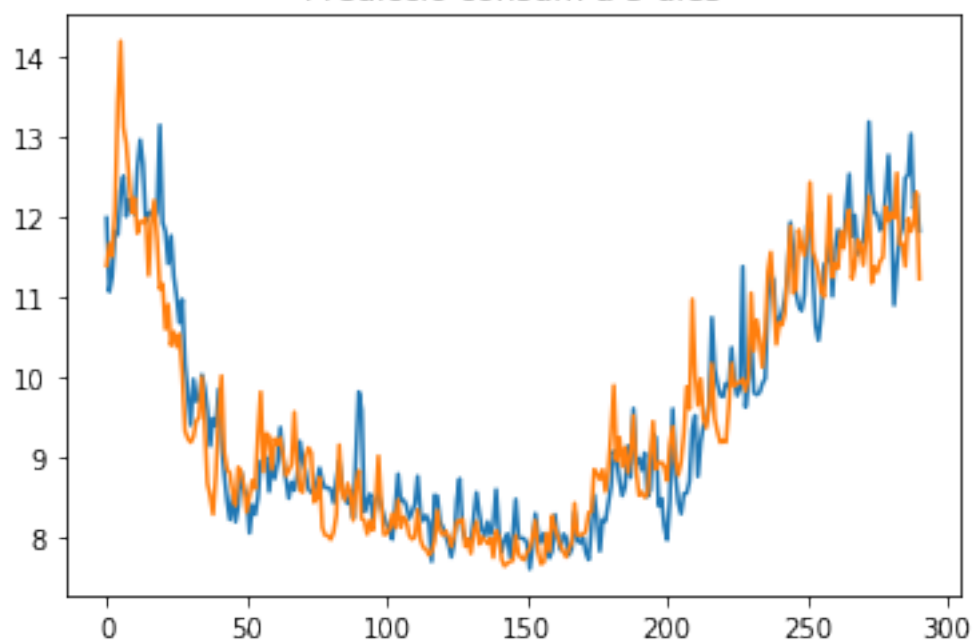
Predicció consum a 3 dies



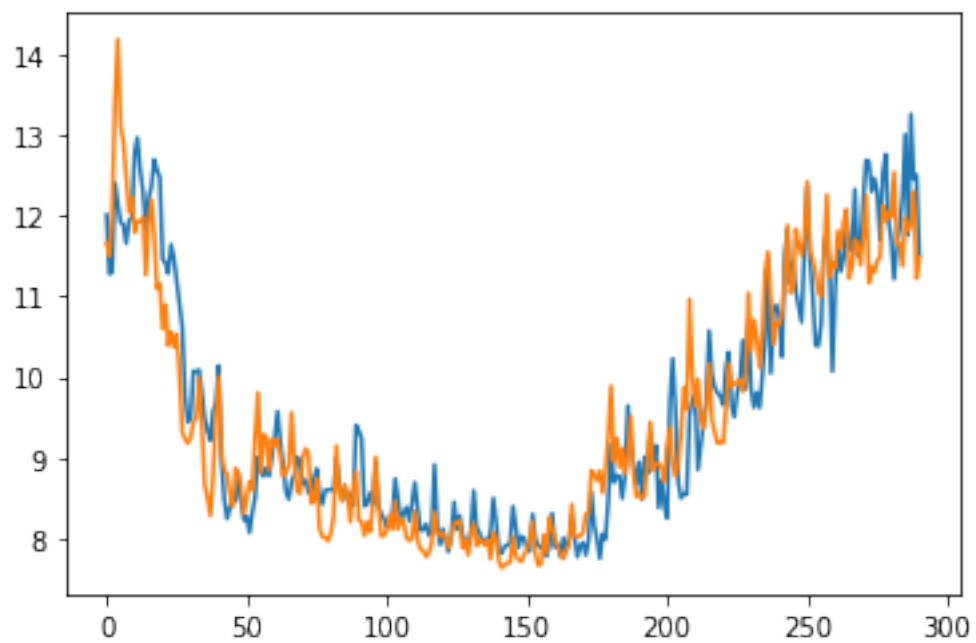
Predicció consum a 4 dies



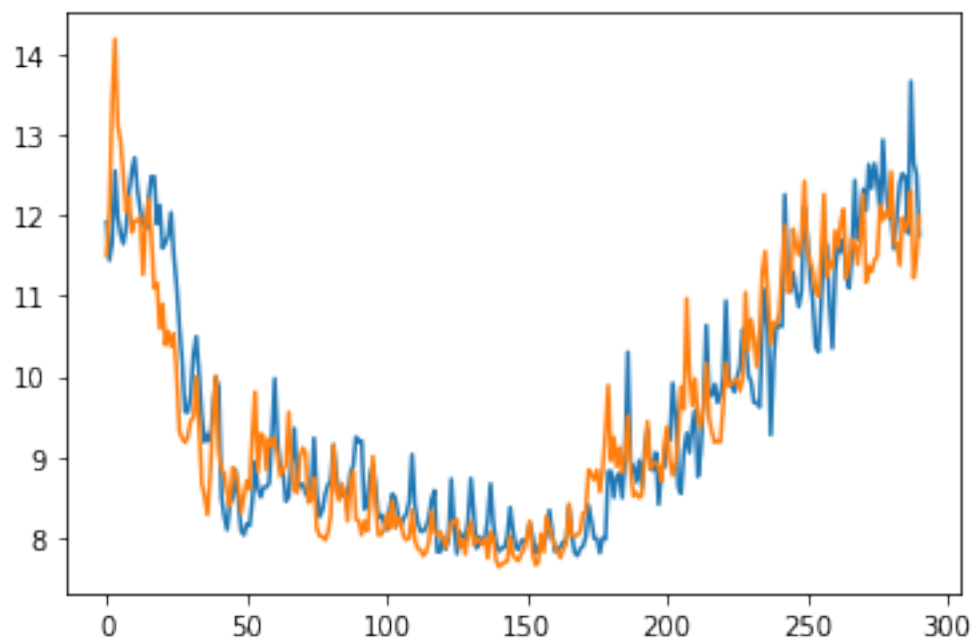
Predicció consum a 5 dies



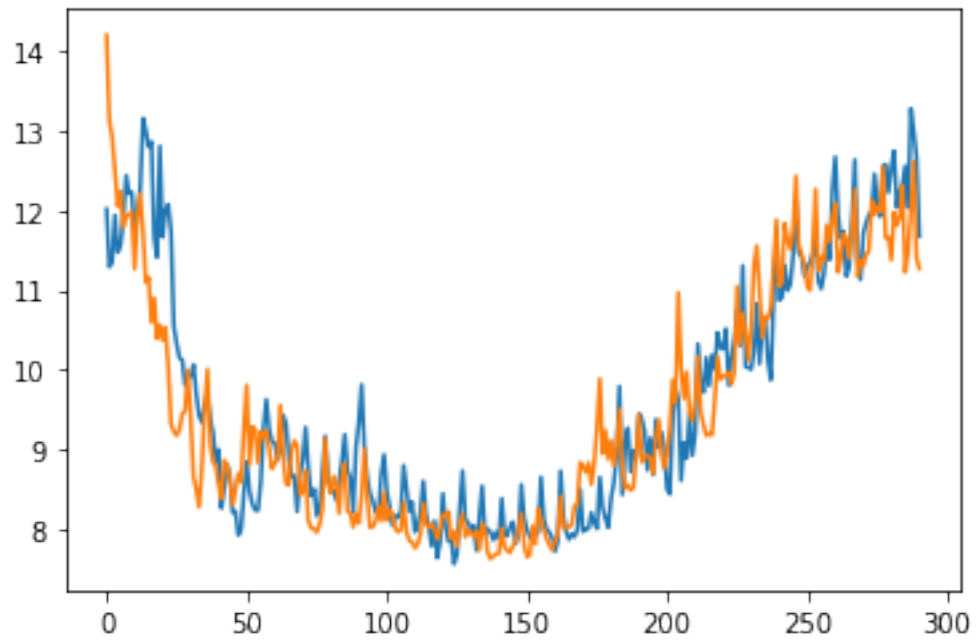
Predicció consum a 6 dies



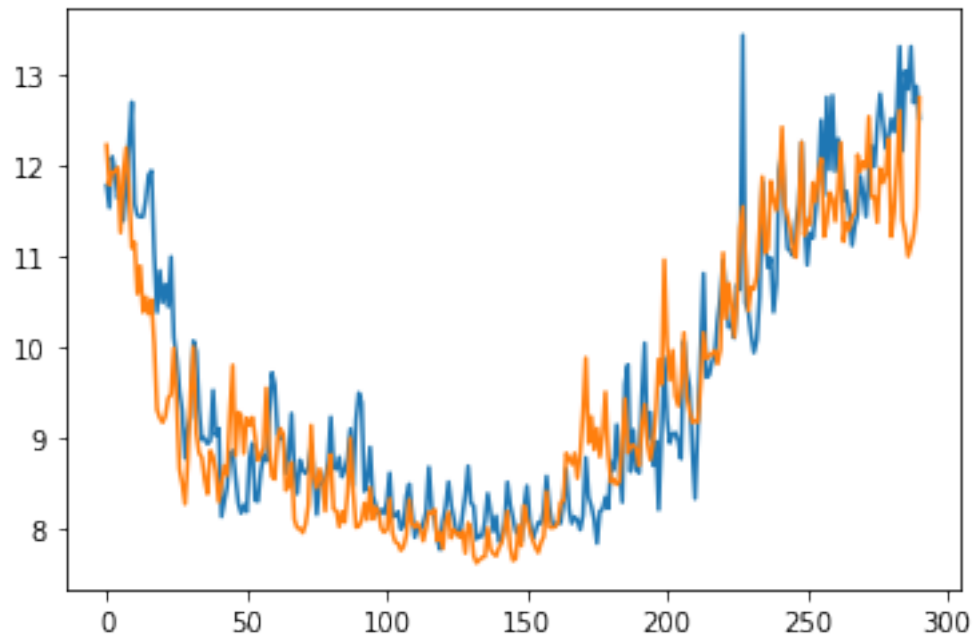
Predicció consum a 7 dies



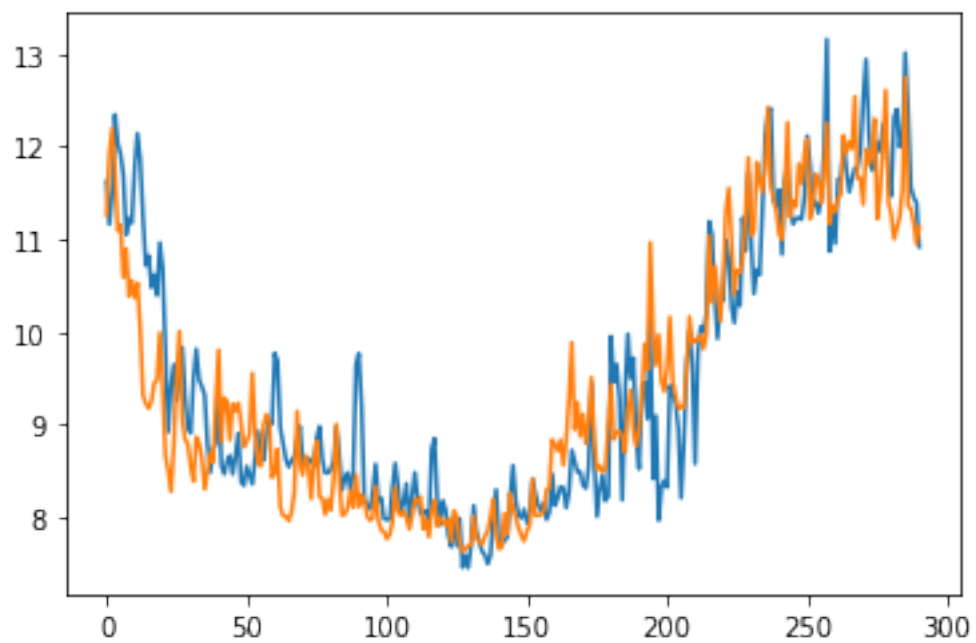
Predicció consum a 10 dies



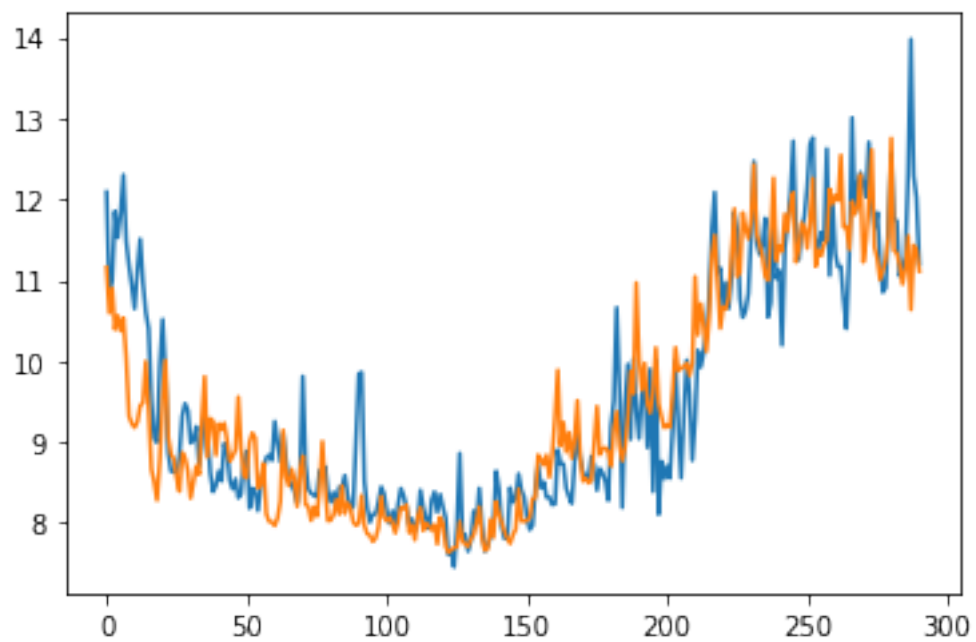
Predicció consum a 15 dies



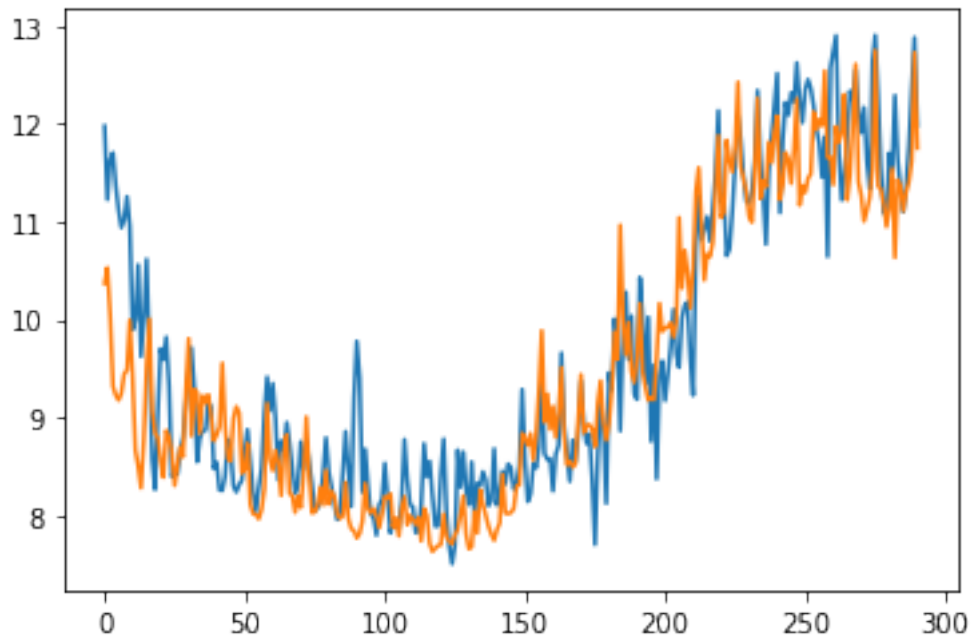
Predicció consum a 20 dies



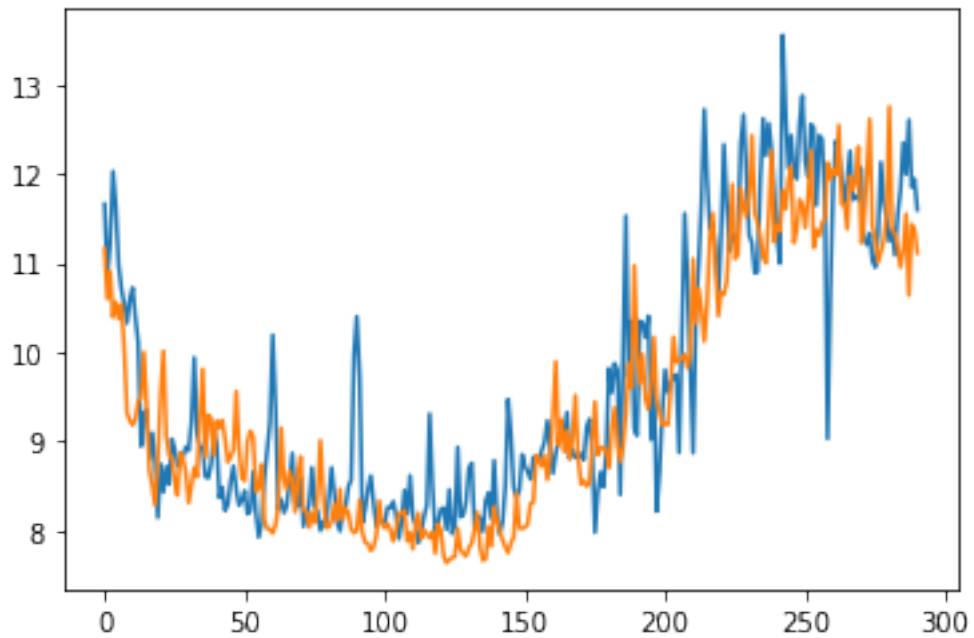
Predicció consum a 25 dies



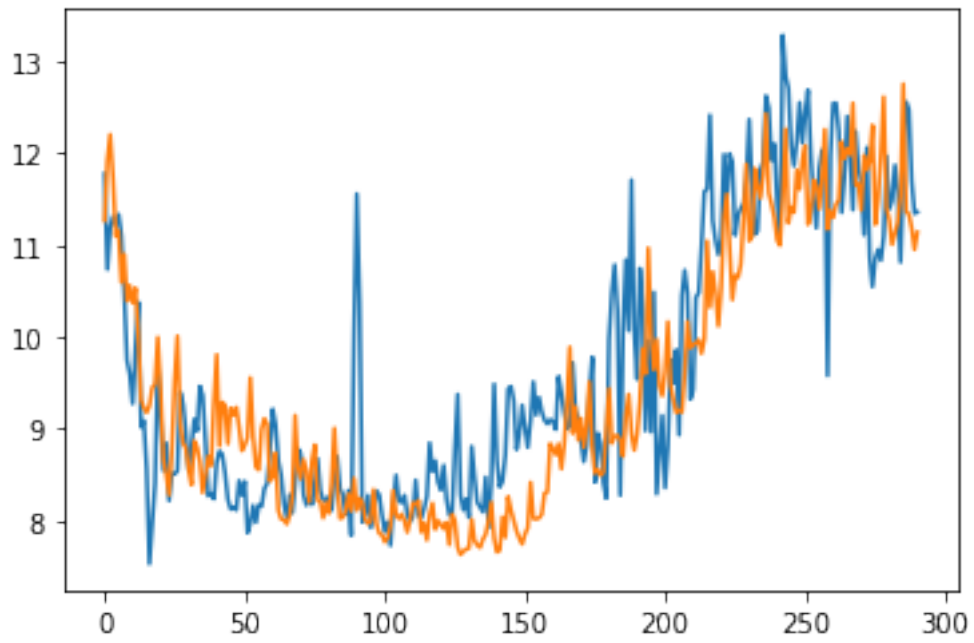
Predicció consum a 30 dies



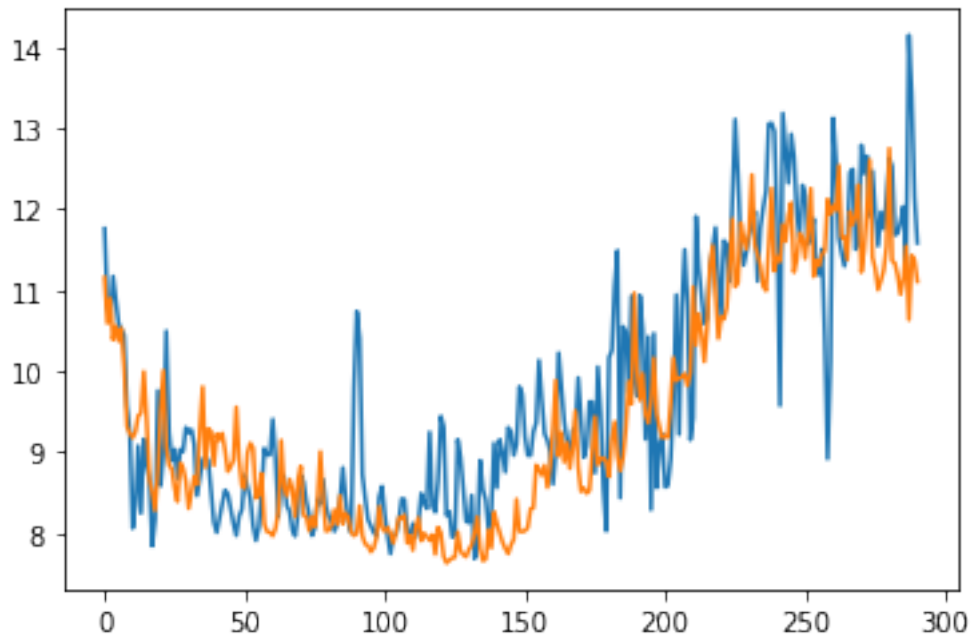
Predicció consum a 35 dies



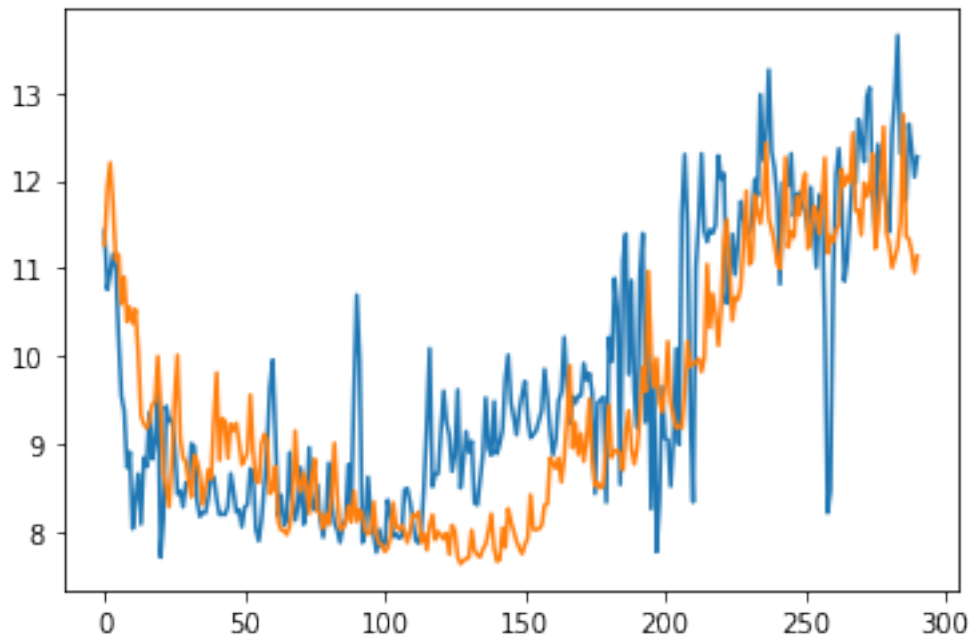
Predicció consum a 40 dies



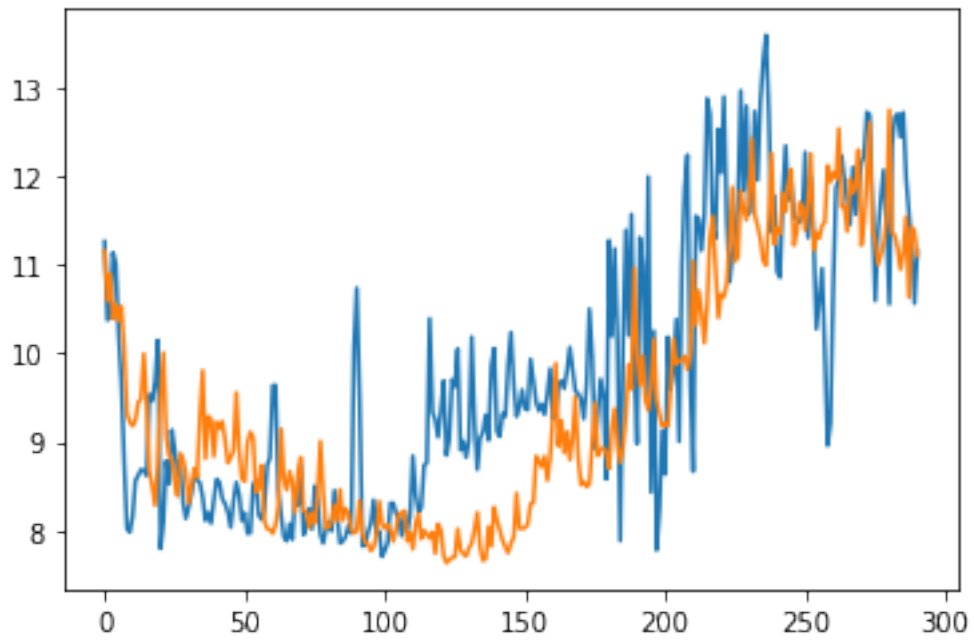
Predicció consum a 45 dies



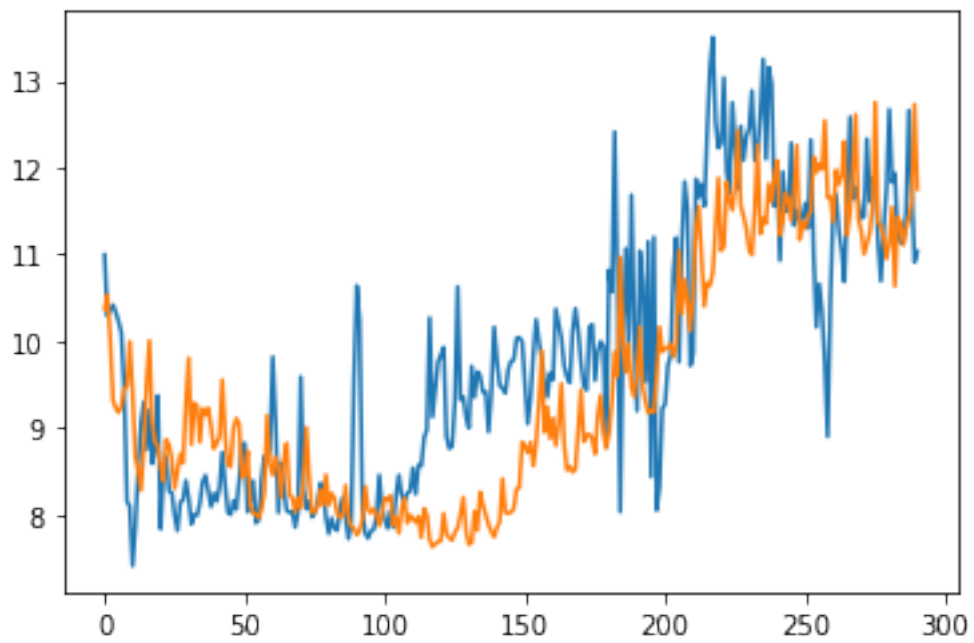
Predicció consum a 50 dies



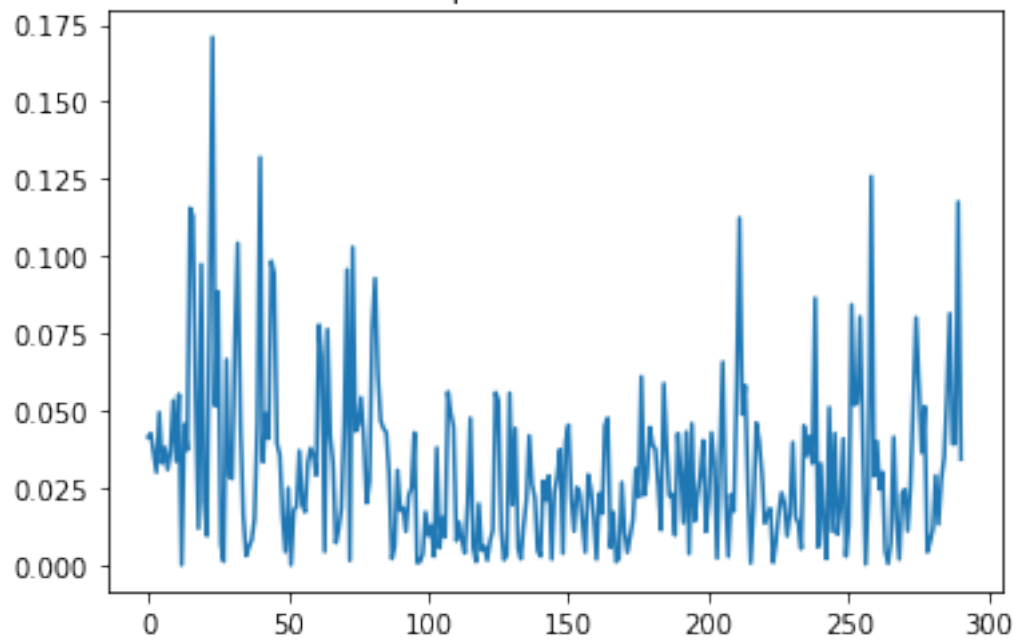
Predicció consum a 55 dies

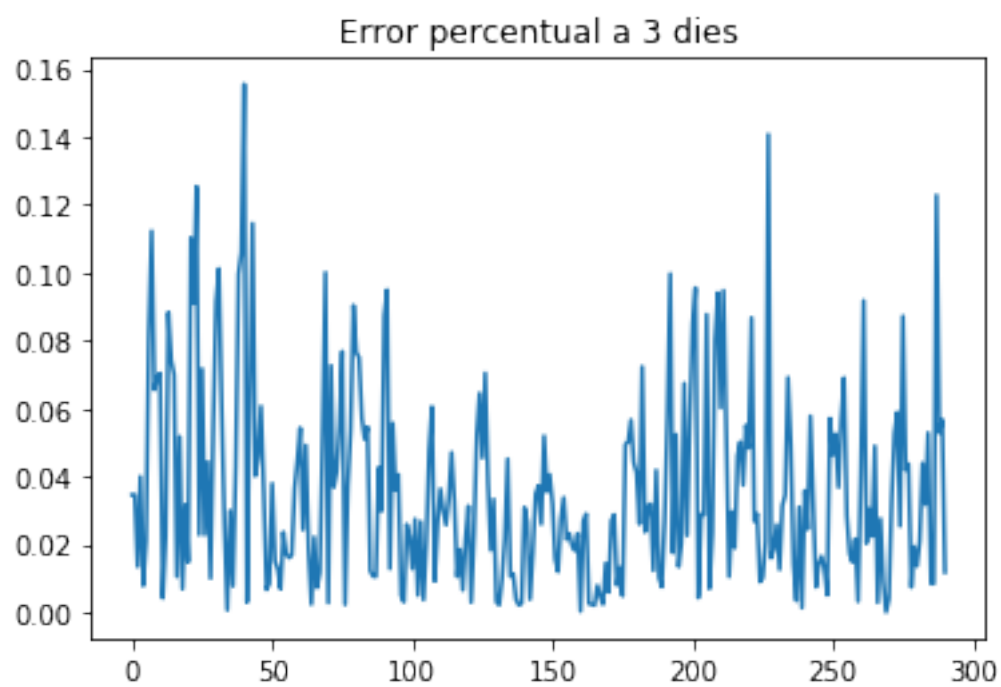
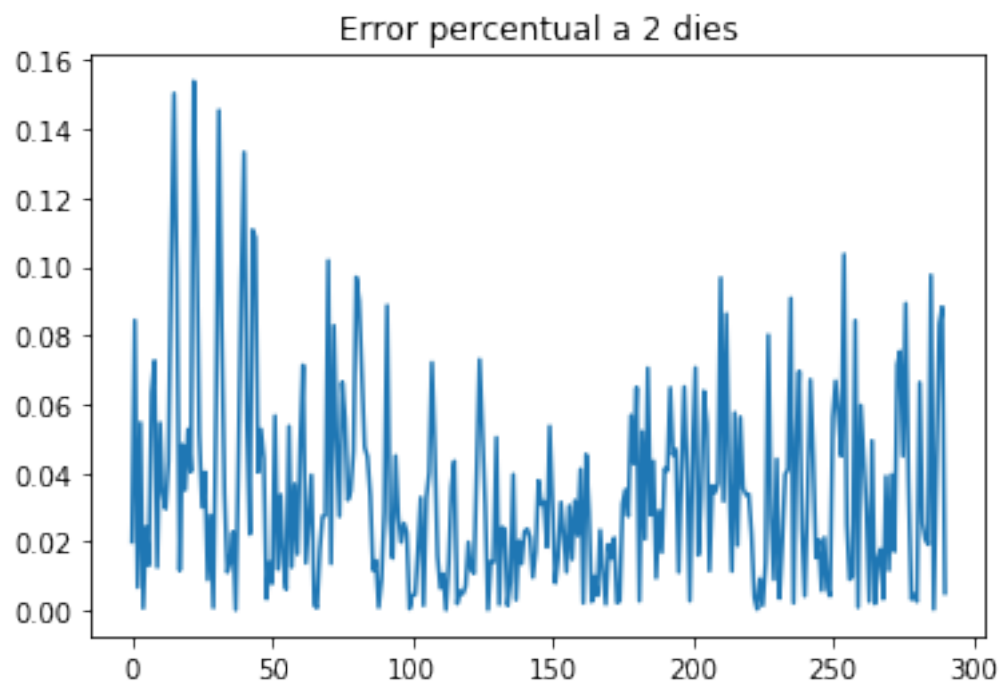


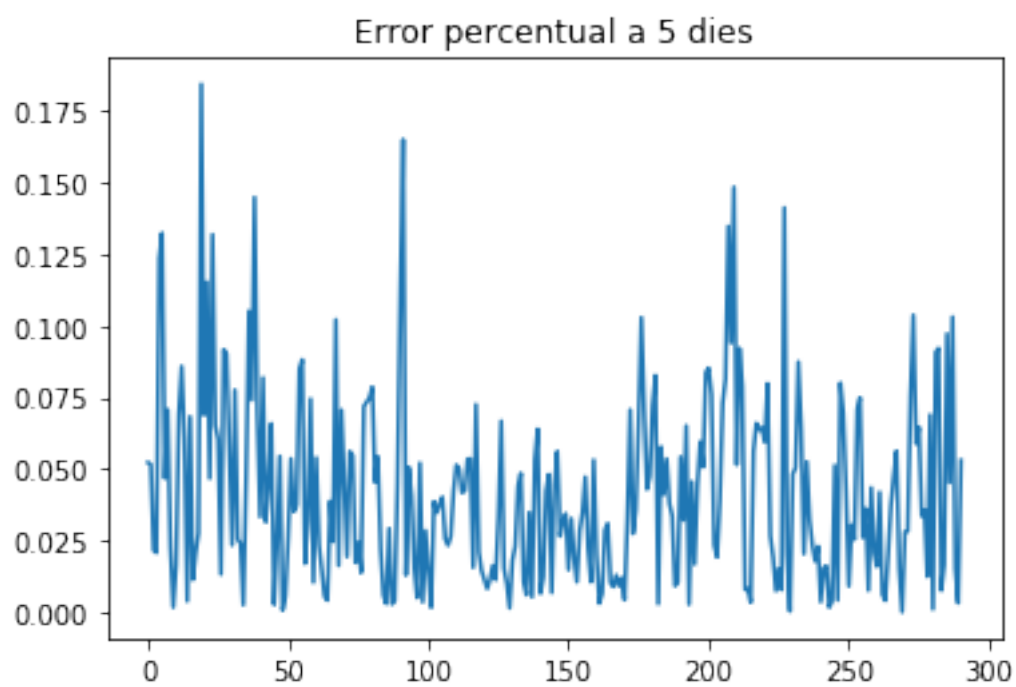
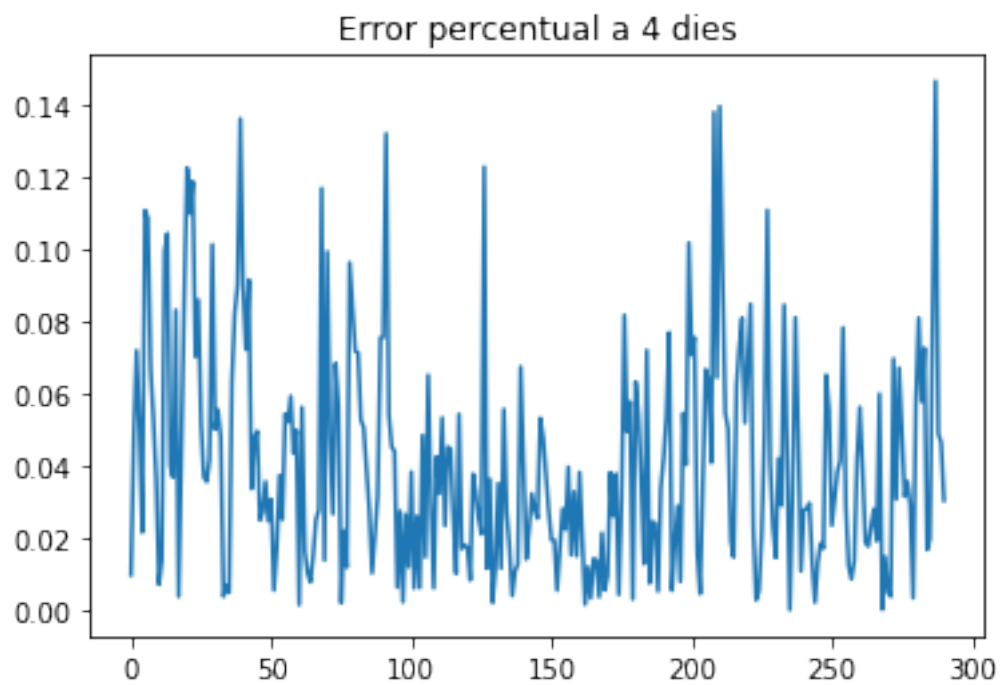
Predicció consum a 60 dies



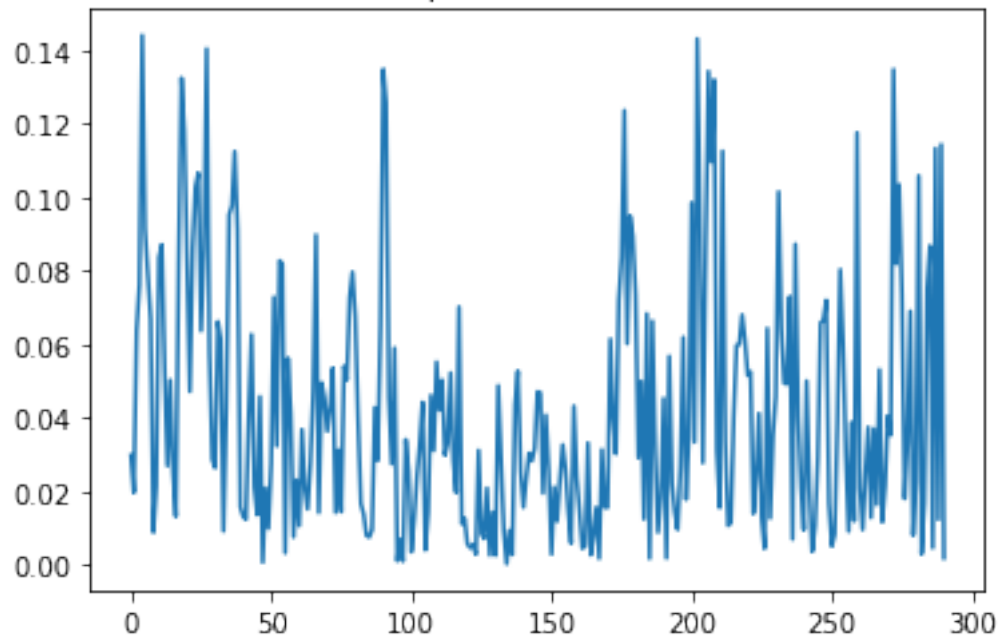
Error percentual a 1 dia



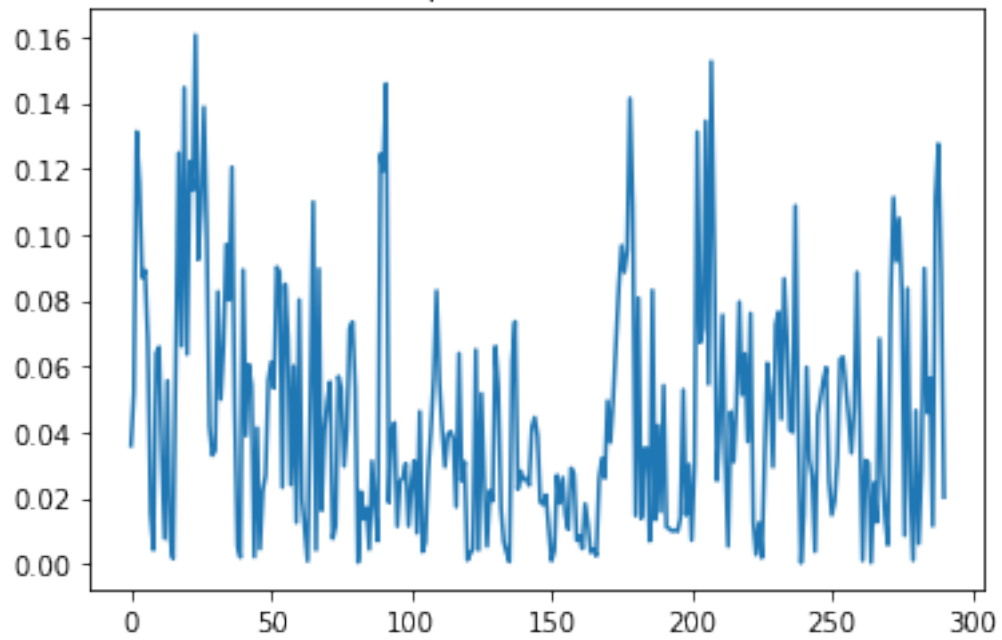


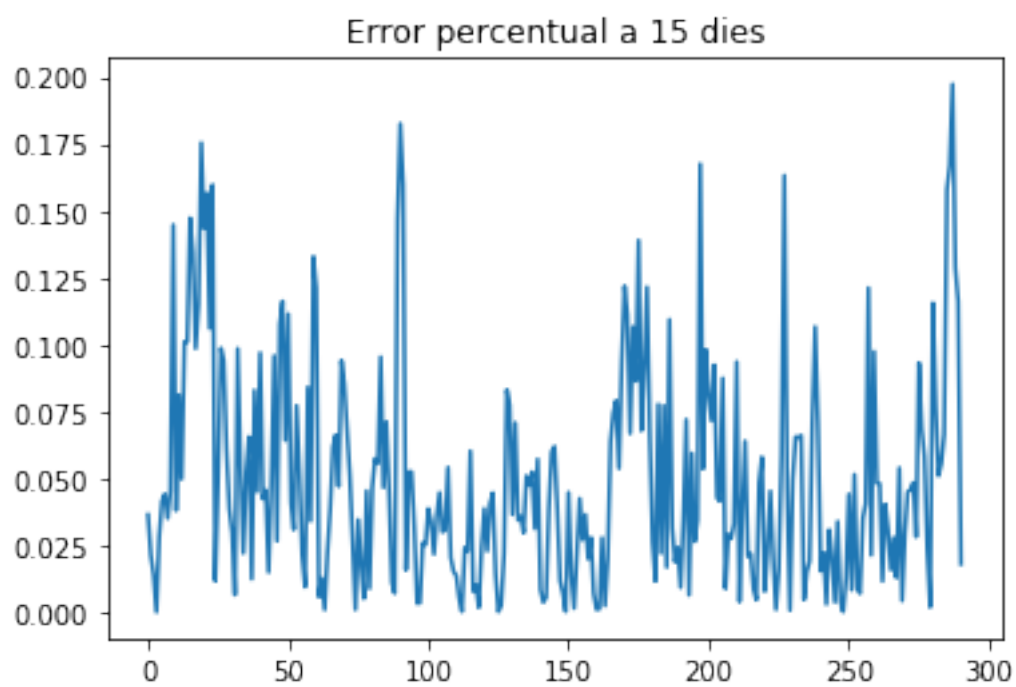
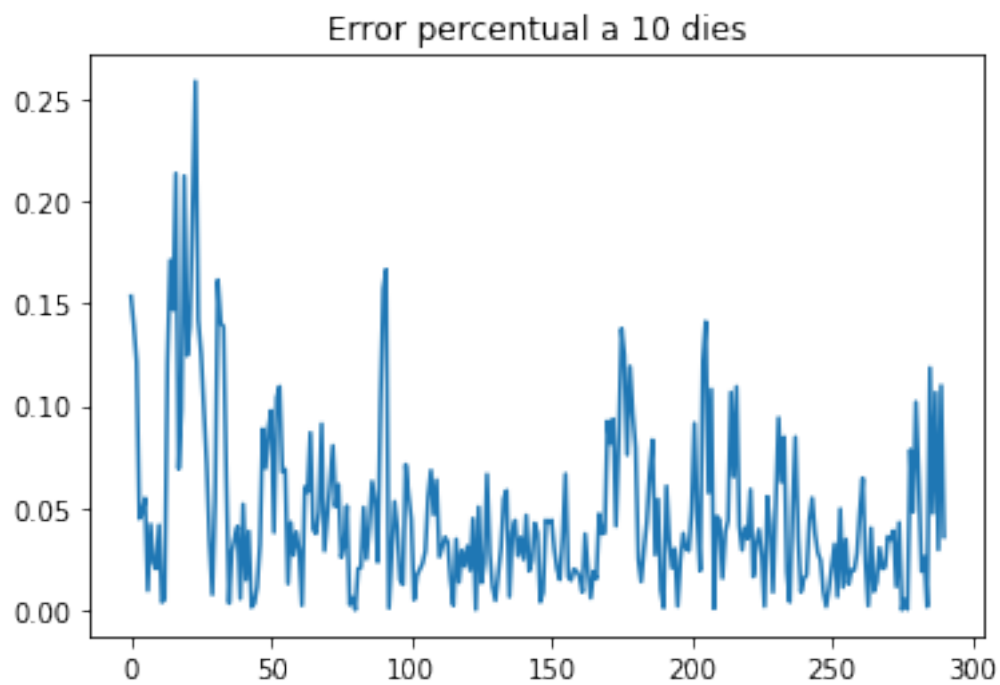


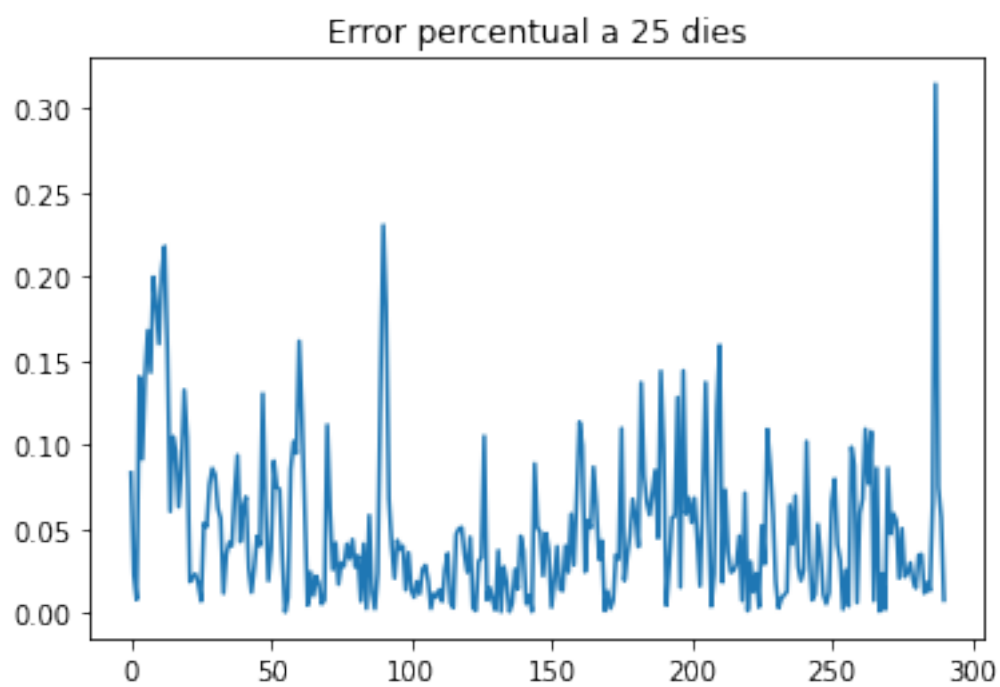
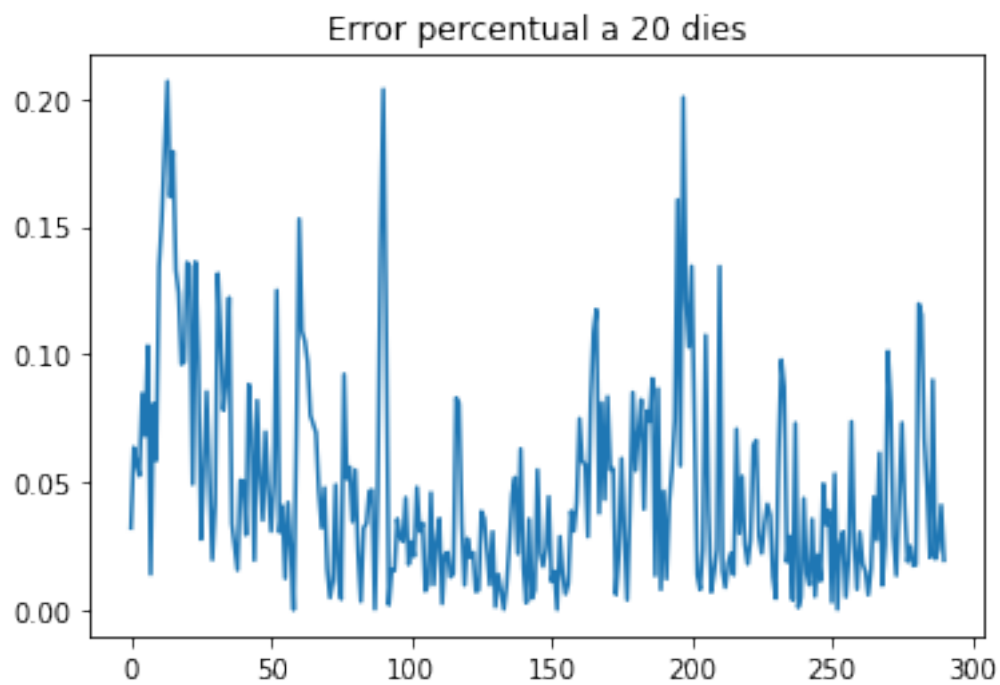
Error percentual a 6 dies

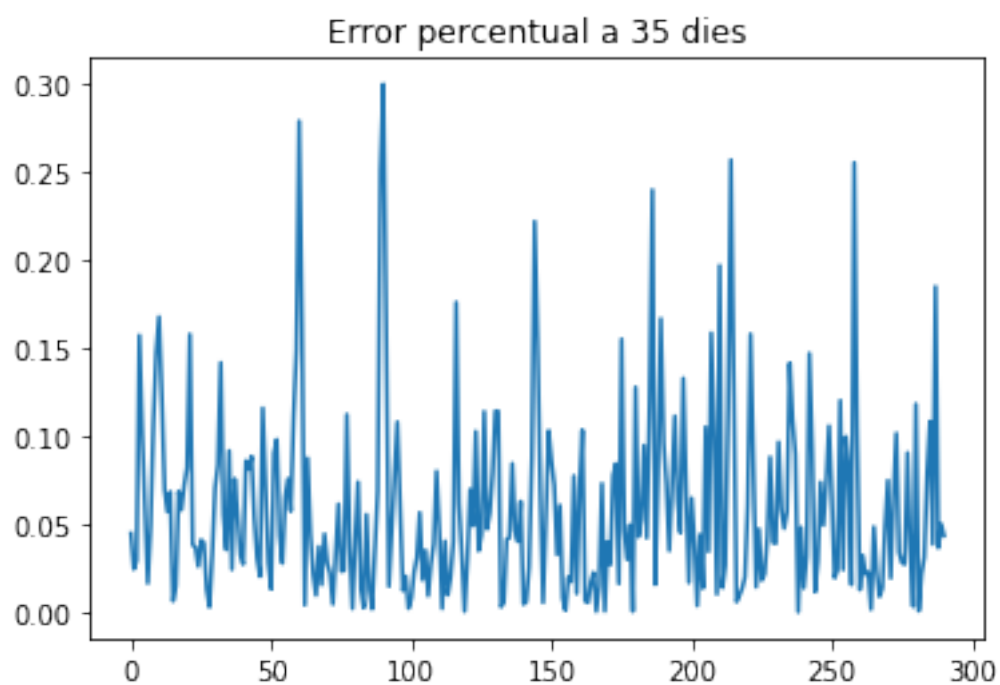
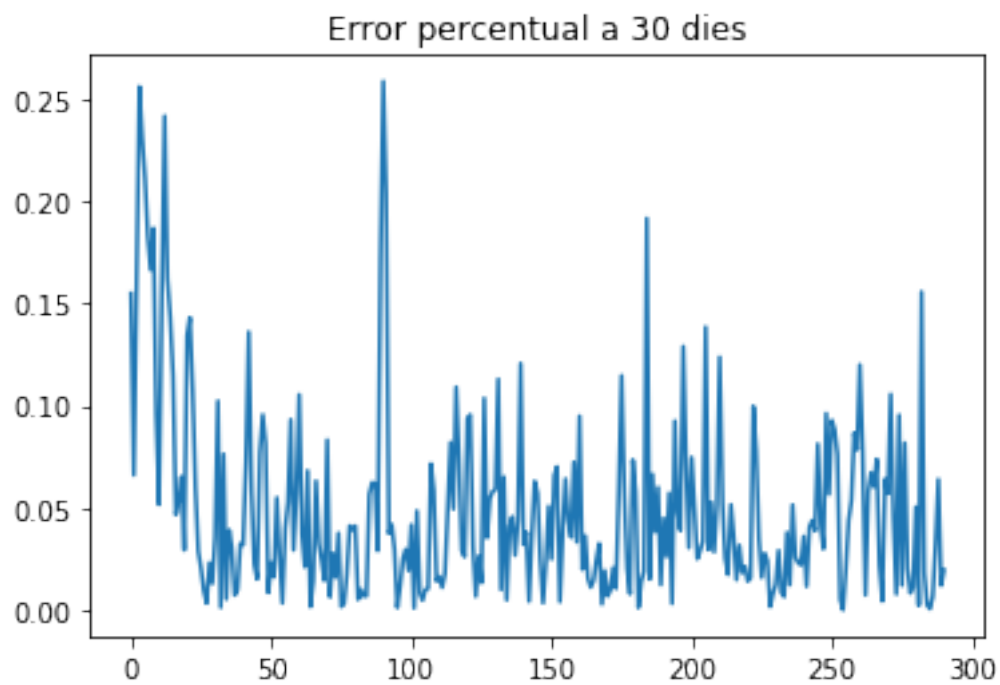


Error percentual a 7 dies

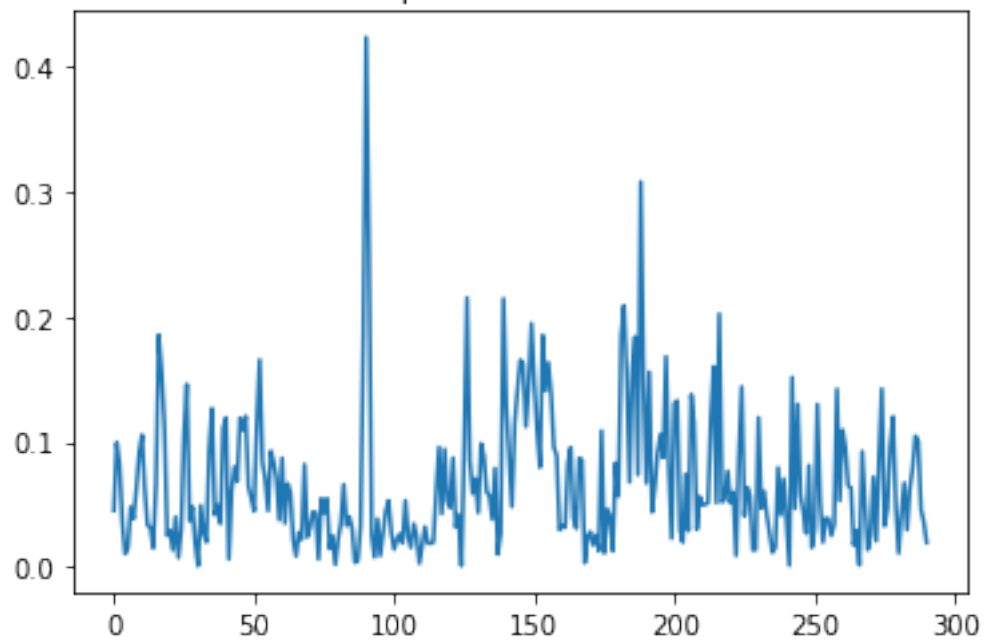




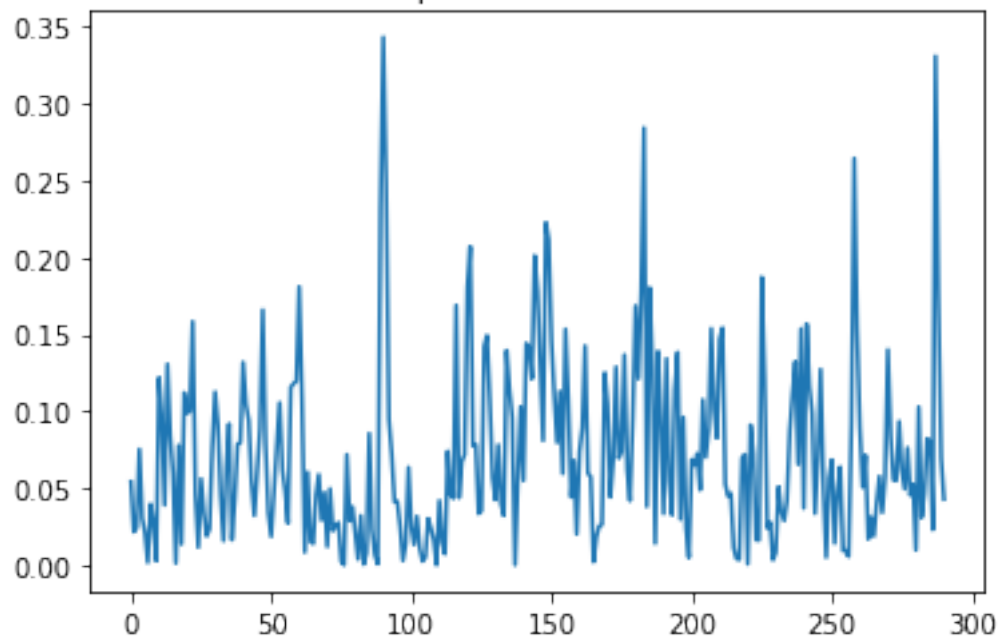


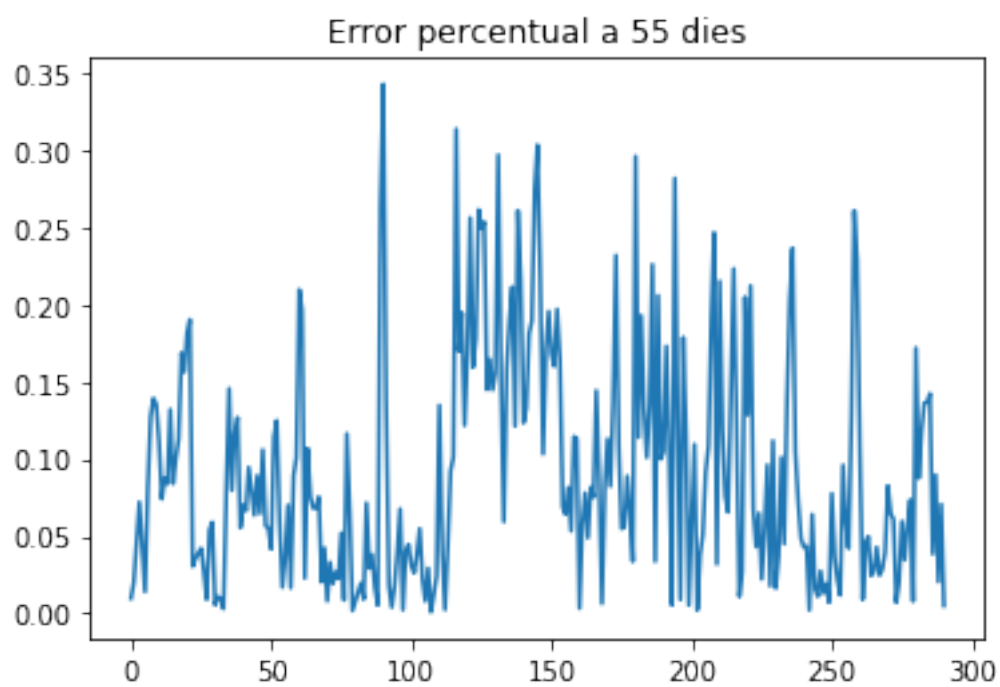
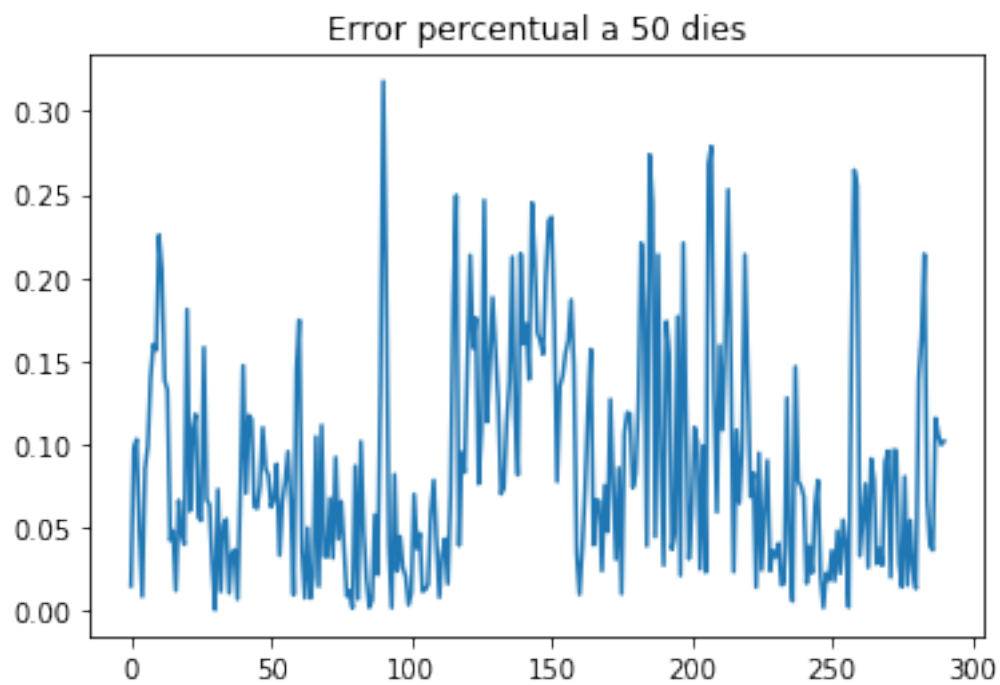


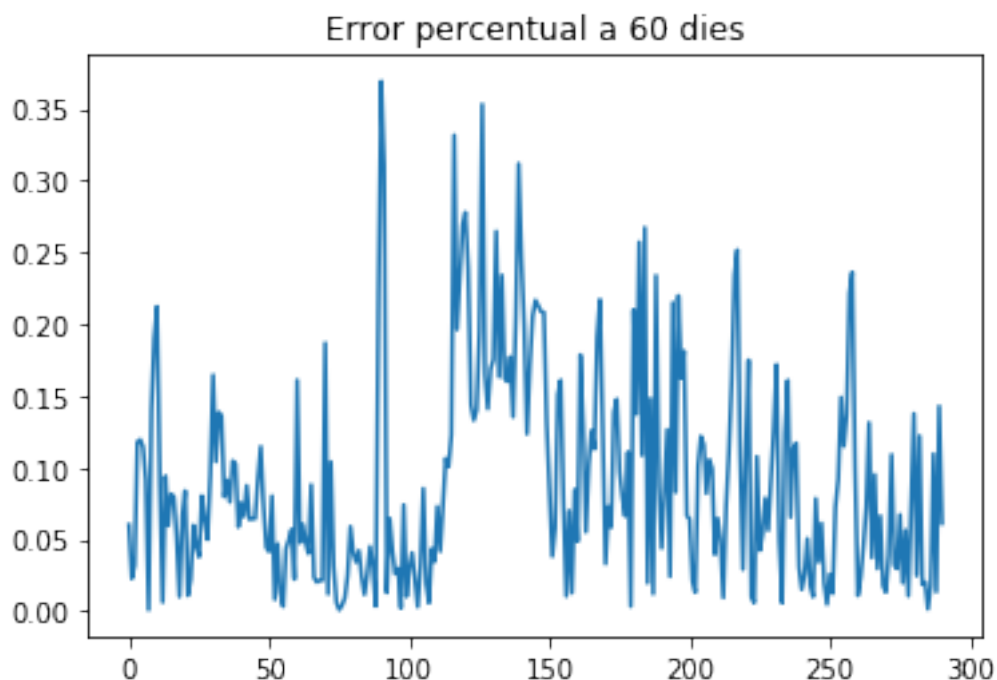
Error percentual a 40 dies



Error percentual a 45 dies







L'error mitjà a 1 dia és de 3.1604447888601532 %
 L'error mitjà a 2 dies és de 3.464385676917455 %
 L'error mitjà a 3 dies és de 3.5805887239782073 %
 L'error mitjà a 4 dies és de 4.064903567644374 %
 L'error mitjà a 5 dies és de 4.155215071815508 %
 L'error mitjà a 6 dies és de 4.185795441829246 %
 L'error mitjà a 7 dies és de 4.476025727342001 %
 L'error mitjà a 8 dies és de 4.628067407888385 %
 L'error mitjà a 9 dies és de 4.580228498751644 %
 L'error mitjà a 10 dies és de 4.7891015220041435 %
 L'error mitjà a 11 dies és de 4.83315783747027 %
 L'error mitjà a 12 dies és de 4.868641647277406 %
 L'error mitjà a 13 dies és de 4.893875143989665 %
 L'error mitjà a 14 dies és de 4.93686532777373 %
 L'error mitjà a 15 dies és de 4.964319213650899 %
 L'error mitjà a 16 dies és de 5.144460956153503 %
 L'error mitjà a 17 dies és de 5.22918772740669 %
 L'error mitjà a 18 dies és de 4.9252484762506175 %
 L'error mitjà a 19 dies és de 4.812543003917279 %
 L'error mitjà a 20 dies és de 4.822614402196003 %
 L'error mitjà a 21 dies és de 4.892429608742379 %
 L'error mitjà a 22 dies és de 4.793916799883175 %
 L'error mitjà a 23 dies és de 4.935175125462188 %
 L'error mitjà a 24 dies és de 5.092982800887137 %
 L'error mitjà a 25 dies és de 4.995700251154802 %

L'error mitjà a 26 dies és de 4.676161498091386 %
 L'error mitjà a 27 dies és de 4.986950011169034 %
 L'error mitjà a 28 dies és de 4.931788784158473 %
 L'error mitjà a 29 dies és de 5.114608137456565 %
 L'error mitjà a 30 dies és de 4.981571685250897 %
 L'error mitjà a 31 dia és de 6.191048443642301 %
 L'error mitjà a 32 dies és de 6.509236181185099 %
 L'error mitjà a 33 dies és de 6.276834363996911 %
 L'error mitjà a 34 dies és de 5.998815655336182 %
 L'error mitjà a 35 dies és de 5.997451716863105 %
 L'error mitjà a 36 dies és de 6.162358054116744 %
 L'error mitjà a 37 dies és de 6.238372282452784 %
 L'error mitjà a 38 dies és de 6.341203881953648 %
 L'error mitjà a 39 dies és de 6.565244440492666 %
 L'error mitjà a 40 dies és de 6.78474138812033 %
 L'error mitjà a 41 dies és de 6.70827122881783 %
 L'error mitjà a 42 dies és de 6.7564592397669 %
 L'error mitjà a 43 dies és de 6.829335048592573 %
 L'error mitjà a 44 dies és de 7.060667315287692 %
 L'error mitjà a 45 dies és de 7.153373844256226 %
 L'error mitjà a 46 dies és de 7.002029398601474 %
 L'error mitjà a 47 dies és de 7.099920008781681 %
 L'error mitjà a 48 dies és de 7.334090318439893 %
 L'error mitjà a 49 dies és de 7.638068619098444 %
 L'error mitjà a 50 dies és de 8.724221501559965 %
 L'error mitjà a 51 dies és de 8.524959362485482 %
 L'error mitjà a 52 dies és de 8.769660248420962 %
 L'error mitjà a 53 dies és de 8.738257845390047 %
 L'error mitjà a 54 dies és de 8.958709929367572 %
 L'error mitjà a 55 dies és de 9.14775845507389 %
 L'error mitjà a 56 dies és de 9.182399300755133 %
 L'error mitjà a 57 dies és de 9.016827408816363 %
 L'error mitjà a 58 dies és de 8.825837217822096 %
 L'error mitjà a 59 dies és de 8.992607297254484 %
 L'error mitjà a 60 dies és de 9.16977755795739 %

In [26]: (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[26]: 6.076924873667985

In []:

In []:

In []:

In []:

In []:

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In [ ]:
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In [ ]:
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