MM7 _Xarxa_walkforward_normalitzat_multivariate2_multistep(30)_14dies

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 one-step

```
In [16]: daily=pd.read_csv('C:/Users/Laura/Desktop/Smart meters London/workspace R/Dades netes,
         daily.head(5)
```

```
Out[16]:          date  apparentTemperatureMax  sunsetTimeHour  weekday  season  \
         0  2013-01-16                   -0.15              16        3  winter
         1  2013-01-20                   -0.46              16        7  winter
         2  2013-01-10                    2.36              16        4  winter
         3  2013-01-06                    6.98              16        7  winter
         4  2012-01-31                    1.13              16        2  winter

            cloudCover  humidity  visibility  month  energy_sum
         0        0.48      0.91        4.12      1   13.147536
```

```
1          0.85       0.91       5.10      1    15.021900
2          0.70       0.94       5.21      1    12.066789
3          0.67       0.96       5.50      1    12.422263
4          0.55       0.84       5.62      1    13.890518
```

In [17]: *#Ens quedem amb date i energy_sum, ordenem valors per data i resetejem index*
         daily_dia=daily[['date','energy_sum','apparentTemperatureMax','humidity']].sort_value
         daily_dia.head(5)

Out[17]:   index   date   energy_sum   apparentTemperatureMax   humidity
         0   677   2011-11-23   6.952692   10.36   0.93
         1   691   2011-11-24   8.536480   12.93   0.89
         2   713   2011-11-25   9.499781   13.03   0.79
         3   728   2011-11-26   10.267707   12.96   0.81
         4   729   2011-11-27   10.850805   13.54   0.72

In [16]: plt.plot(daily_dia)

Out[16]: [<matplotlib.lines.Line2D at 0x24f9e752240>]
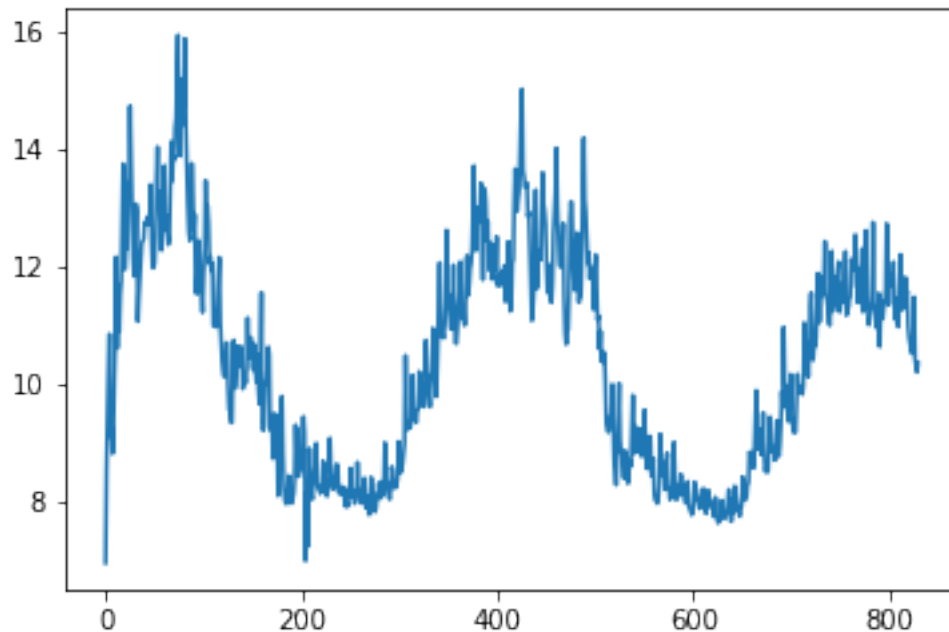
In [18]: daily_dia['y+1']=daily_dia['energy_sum'].shift(-1)
         daily_dia['y+2']=daily_dia['energy_sum'].shift(-2)
         daily_dia['y+3']=daily_dia['energy_sum'].shift(-3)
         daily_dia['y+4']=daily_dia['energy_sum'].shift(-4)
         daily_dia['y+5']=daily_dia['energy_sum'].shift(-5)
         daily_dia['y+6']=daily_dia['energy_sum'].shift(-6)

2

```python
daily_dia['y+7']=daily_dia['energy_sum'].shift(-7)
daily_dia['y+8']=daily_dia['energy_sum'].shift(-8)
daily_dia['y+9']=daily_dia['energy_sum'].shift(-9)
daily_dia['y+10']=daily_dia['energy_sum'].shift(-10)
daily_dia['y+11']=daily_dia['energy_sum'].shift(-11)
daily_dia['y+12']=daily_dia['energy_sum'].shift(-12)
daily_dia['y+13']=daily_dia['energy_sum'].shift(-13)
daily_dia['y+14']=daily_dia['energy_sum'].shift(-14)
daily_dia['y+15']=daily_dia['energy_sum'].shift(-15)
daily_dia['y+16']=daily_dia['energy_sum'].shift(-16)
daily_dia['y+17']=daily_dia['energy_sum'].shift(-17)
daily_dia['y+18']=daily_dia['energy_sum'].shift(-18)
daily_dia['y+19']=daily_dia['energy_sum'].shift(-19)
daily_dia['y+20']=daily_dia['energy_sum'].shift(-20)
daily_dia['y+21']=daily_dia['energy_sum'].shift(-21)
daily_dia['y+22']=daily_dia['energy_sum'].shift(-22)
daily_dia['y+23']=daily_dia['energy_sum'].shift(-23)
daily_dia['y+24']=daily_dia['energy_sum'].shift(-24)
daily_dia['y+25']=daily_dia['energy_sum'].shift(-25)
daily_dia['y+26']=daily_dia['energy_sum'].shift(-26)
daily_dia['y+27']=daily_dia['energy_sum'].shift(-27)
daily_dia['y+28']=daily_dia['energy_sum'].shift(-28)
daily_dia['y+29']=daily_dia['energy_sum'].shift(-29)
daily_dia['y+30']=daily_dia['energy_sum'].shift(-30)


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

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


daily_dia
```

Out[18]:

	index	date	energy_sum	apparentTemperatureMax	humidity \
0	677	2011-11-23	6.952692	10.36	0.93
1	691	2011-11-24	8.536480	12.93	0.89
2	713	2011-11-25	9.499781	13.03	0.79
3	728	2011-11-26	10.267707	12.96	0.81
4	729	2011-11-27	10.850805	13.54	0.72
5	704	2011-11-28	9.103382	12.58	0.86
6	718	2011-11-29	9.274873	13.47	0.82
7	727	2011-11-30	8.813513	11.87	0.78
8	778	2011-12-01	9.227707	12.15	0.82

9	773	2011-12-02	10.145910	5.33	0.87
10	791	2011-12-03	10.780273	11.42	0.79
11	822	2011-12-04	12.163127	6.66	0.82
12	807	2011-12-05	10.609714	3.13	0.77
13	813	2011-12-06	11.673417	3.77	0.83
14	810	2011-12-07	10.889362	5.14	0.68
15	788	2011-12-08	11.525150	12.89	0.81
16	797	2011-12-09	11.759837	3.99	0.71
17	799	2011-12-10	12.633801	3.14	0.81
18	776	2011-12-11	13.749174	5.72	0.88
19	775	2011-12-12	11.951958	5.94	0.84
20	786	2011-12-13	11.957446	12.08	0.75
21	818	2011-12-14	12.392776	2.88	0.79
22	795	2011-12-15	12.307079	4.38	0.77
23	763	2011-12-16	13.376080	0.99	0.88
24	770	2011-12-17	13.511968	1.72	0.86
25	808	2011-12-18	14.732271	1.98	0.84
26	757	2011-12-19	13.774471	4.02	0.94
27	803	2011-12-20	12.709106	4.98	0.81
28	748	2011-12-21	12.148570	12.14	0.94
29	806	2011-12-22	11.839403	12.14	0.87
..	...	...	...	...	...
800	21	2014-01-29	11.800777	2.53	0.90
801	10	2014-01-30	11.685169	5.86	0.91
802	12	2014-01-31	11.857957	5.27	0.91
803	129	2014-02-01	11.710582	6.86	0.76
804	155	2014-02-02	12.078164	6.48	0.72
805	145	2014-02-03	11.280011	4.59	0.79
806	134	2014-02-04	11.095584	5.63	0.75
807	123	2014-02-05	11.415105	5.86	0.77
808	118	2014-02-06	11.445403	7.34	0.82
809	122	2014-02-07	10.972318	8.44	0.79
810	126	2014-02-08	11.569300	5.67	0.77
811	149	2014-02-09	12.202967	3.91	0.66
812	132	2014-02-10	11.264175	7.07	0.84
813	143	2014-02-11	11.452649	4.06	0.76
814	131	2014-02-12	11.679099	4.73	0.75
815	164	2014-02-13	11.285737	3.42	0.68
816	125	2014-02-14	11.816914	12.02	0.81
817	141	2014-02-15	11.490470	5.79	0.69
818	151	2014-02-16	11.582159	7.88	0.76
819	116	2014-02-17	10.979566	10.67	0.83
820	128	2014-02-18	10.781898	10.13	0.87
821	115	2014-02-19	10.674624	10.13	0.87
822	121	2014-02-20	10.573835	12.50	0.84
823	174	2014-02-21	10.518126	10.15	0.72
824	167	2014-02-22	10.776242	11.63	0.71
825	139	2014-02-23	11.480411	11.94	0.76

```
826    162   2014-02-24    10.411403                        14.23      0.74
827    136   2014-02-25    10.294997                        11.43      0.78
828    161   2014-02-26    10.202945                        11.29      0.73
829    133   2014-02-27    10.356350                        10.31      0.74

              y+1          y+2          y+3          y+4          y+5   ...   \
0        8.536480     9.499781    10.267707    10.850805     9.103382  ...
1        9.499781    10.267707    10.850805     9.103382     9.274873  ...
2       10.267707    10.850805     9.103382     9.274873     8.813513  ...
3       10.850805     9.103382     9.274873     8.813513     9.227707  ...
4        9.103382     9.274873     8.813513     9.227707    10.145910  ...
5        9.274873     8.813513     9.227707    10.145910    10.780273  ...
6        8.813513     9.227707    10.145910    10.780273    12.163127  ...
7        9.227707    10.145910    10.780273    12.163127    10.609714  ...
8       10.145910    10.780273    12.163127    10.609714    11.673417  ...
9       10.780273    12.163127    10.609714    11.673417    10.889362  ...
10      12.163127    10.609714    11.673417    10.889362    11.525150  ...
11      10.609714    11.673417    10.889362    11.525150    11.759837  ...
12      11.673417    10.889362    11.525150    11.759837    12.633801  ...
13      10.889362    11.525150    11.759837    12.633801    13.749174  ...
14      11.525150    11.759837    12.633801    13.749174    11.951958  ...
15      11.759837    12.633801    13.749174    11.951958    11.957446  ...
16      12.633801    13.749174    11.951958    11.957446    12.392776  ...
17      13.749174    11.951958    11.957446    12.392776    12.307079  ...
18      11.951958    11.957446    12.392776    12.307079    13.376080  ...
19      11.957446    12.392776    12.307079    13.376080    13.511968  ...
20      12.392776    12.307079    13.376080    13.511968    14.732271  ...
21      12.307079    13.376080    13.511968    14.732271    13.774471  ...
22      13.376080    13.511968    14.732271    13.774471    12.709106  ...
23      13.511968    14.732271    13.774471    12.709106    12.148570  ...
24      14.732271    13.774471    12.709106    12.148570    11.839403  ...
25      13.774471    12.709106    12.148570    11.839403    12.254989  ...
26      12.709106    12.148570    11.839403    12.254989    13.065317  ...
27      12.148570    11.839403    12.254989    13.065317    12.949429  ...
28      11.839403    12.254989    13.065317    12.949429    11.065577  ...
29      12.254989    13.065317    12.949429    11.065577    11.494944  ...
..            ...          ...          ...          ...          ...  ...
800     11.685169    11.857957    11.710582    12.078164    11.280011  ...
801     11.857957    11.710582    12.078164    11.280011    11.095584  ...
802     11.710582    12.078164    11.280011    11.095584    11.415105  ...
803     12.078164    11.280011    11.095584    11.415105    11.445403  ...
804     11.280011    11.095584    11.415105    11.445403    10.972318  ...
805     11.095584    11.415105    11.445403    10.972318    11.569300  ...
806     11.415105    11.445403    10.972318    11.569300    12.202967  ...
807     11.445403    10.972318    11.569300    12.202967    11.264175  ...
808     10.972318    11.569300    12.202967    11.264175    11.452649  ...
809     11.569300    12.202967    11.264175    11.452649    11.679099  ...
810     12.202967    11.264175    11.452649    11.679099    11.285737  ...
```

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811  11.264175  11.452649  11.679099  11.285737  11.816914  ...
812  11.452649  11.679099  11.285737  11.816914  11.490470  ...
813  11.679099  11.285737  11.816914  11.490470  11.582159  ...
814  11.285737  11.816914  11.490470  11.582159  10.979566  ...
815  11.816914  11.490470  11.582159  10.979566  10.781898  ...
816  11.490470  11.582159  10.979566  10.781898  10.674624  ...
817  11.582159  10.979566  10.781898  10.674624  10.573835  ...
818  10.979566  10.781898  10.674624  10.573835  10.518126  ...
819  10.781898  10.674624  10.573835  10.518126  10.776242  ...
820  10.674624  10.573835  10.518126  10.776242  11.480411  ...
821  10.573835  10.518126  10.776242  11.480411  10.411403  ...
822  10.518126  10.776242  11.480411  10.411403  10.294997  ...
823  10.776242  11.480411  10.411403  10.294997  10.202945  ...
824  11.480411  10.411403  10.294997  10.202945  10.356350  ...
825  10.411403  10.294997  10.202945  10.356350        NaN  ...
826  10.294997  10.202945  10.356350        NaN        NaN  ...
827  10.202945  10.356350        NaN        NaN        NaN  ...
828  10.356350        NaN        NaN        NaN        NaN  ...
829        NaN        NaN        NaN        NaN        NaN  ...

     humidity(t-5)  humidity(t-6)  humidity(t-7)  humidity(t-8)  \
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             0.93            NaN            NaN            NaN
6             0.89           0.93            NaN            NaN
7             0.79           0.89           0.93            NaN
8             0.81           0.79           0.89           0.93
9             0.72           0.81           0.79           0.89
10            0.86           0.72           0.81           0.79
11            0.82           0.86           0.72           0.81
12            0.78           0.82           0.86           0.72
13            0.82           0.78           0.82           0.86
14            0.87           0.82           0.78           0.82
15            0.79           0.87           0.82           0.78
16            0.82           0.79           0.87           0.82
17            0.77           0.82           0.79           0.87
18            0.83           0.77           0.82           0.79
19            0.68           0.83           0.77           0.82
20            0.81           0.68           0.83           0.77
21            0.71           0.81           0.68           0.83
22            0.81           0.71           0.81           0.68
23            0.88           0.81           0.71           0.81
24            0.84           0.88           0.81           0.71
25            0.75           0.84           0.88           0.81
26            0.79           0.75           0.84           0.88
```

27	0.77	0.79	0.75	0.84
28	0.88	0.77	0.79	0.75
29	0.86	0.88	0.77	0.79
..	...	...	...	...
800	0.83	0.82	0.87	0.89
801	0.83	0.83	0.82	0.87
802	0.79	0.83	0.83	0.82
803	0.79	0.79	0.83	0.83
804	0.83	0.79	0.79	0.83
805	0.90	0.83	0.79	0.79
806	0.91	0.90	0.83	0.79
807	0.91	0.91	0.90	0.83
808	0.76	0.91	0.91	0.90
809	0.72	0.76	0.91	0.91
810	0.79	0.72	0.76	0.91
811	0.75	0.79	0.72	0.76
812	0.77	0.75	0.79	0.72
813	0.82	0.77	0.75	0.79
814	0.79	0.82	0.77	0.75
815	0.77	0.79	0.82	0.77
816	0.66	0.77	0.79	0.82
817	0.84	0.66	0.77	0.79
818	0.76	0.84	0.66	0.77
819	0.75	0.76	0.84	0.66
820	0.68	0.75	0.76	0.84
821	0.81	0.68	0.75	0.76
822	0.69	0.81	0.68	0.75
823	0.76	0.69	0.81	0.68
824	0.83	0.76	0.69	0.81
825	0.87	0.83	0.76	0.69
826	0.87	0.87	0.83	0.76
827	0.84	0.87	0.87	0.83
828	0.72	0.84	0.87	0.87
829	0.71	0.72	0.84	0.87

	humidity(t-9)	humidity(t-10)	humidity(t-11)	humidity(t-12)	\
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	NaN	NaN	NaN	NaN	
6	NaN	NaN	NaN	NaN	
7	NaN	NaN	NaN	NaN	
8	NaN	NaN	NaN	NaN	
9	0.93	NaN	NaN	NaN	
10	0.89	0.93	NaN	NaN	
11	0.79	0.89	0.93	NaN	

12	0.81	0.79	0.89	0.93
13	0.72	0.81	0.79	0.89
14	0.86	0.72	0.81	0.79
15	0.82	0.86	0.72	0.81
16	0.78	0.82	0.86	0.72
17	0.82	0.78	0.82	0.86
18	0.87	0.82	0.78	0.82
19	0.79	0.87	0.82	0.78
20	0.82	0.79	0.87	0.82
21	0.77	0.82	0.79	0.87
22	0.83	0.77	0.82	0.79
23	0.68	0.83	0.77	0.82
24	0.81	0.68	0.83	0.77
25	0.71	0.81	0.68	0.83
26	0.81	0.71	0.81	0.68
27	0.88	0.81	0.71	0.81
28	0.84	0.88	0.81	0.71
29	0.75	0.84	0.88	0.81
..	...	...	...	...
800	0.89	0.80	0.83	0.87
801	0.89	0.89	0.80	0.83
802	0.87	0.89	0.89	0.80
803	0.82	0.87	0.89	0.89
804	0.83	0.82	0.87	0.89
805	0.83	0.83	0.82	0.87
806	0.79	0.83	0.83	0.82
807	0.79	0.79	0.83	0.83
808	0.83	0.79	0.79	0.83
809	0.90	0.83	0.79	0.79
810	0.91	0.90	0.83	0.79
811	0.91	0.91	0.90	0.83
812	0.76	0.91	0.91	0.90
813	0.72	0.76	0.91	0.91
814	0.79	0.72	0.76	0.91
815	0.75	0.79	0.72	0.76
816	0.77	0.75	0.79	0.72
817	0.82	0.77	0.75	0.79
818	0.79	0.82	0.77	0.75
819	0.77	0.79	0.82	0.77
820	0.66	0.77	0.79	0.82
821	0.84	0.66	0.77	0.79
822	0.76	0.84	0.66	0.77
823	0.75	0.76	0.84	0.66
824	0.68	0.75	0.76	0.84
825	0.81	0.68	0.75	0.76
826	0.69	0.81	0.68	0.75
827	0.76	0.69	0.81	0.68
828	0.83	0.76	0.69	0.81

829	0.87	0.83	0.76	0.69

	humidity(t-13)	humidity(t-14)
0	NaN	NaN
1	NaN	NaN
2	NaN	NaN
3	NaN	NaN
4	NaN	NaN
5	NaN	NaN
6	NaN	NaN
7	NaN	NaN
8	NaN	NaN
9	NaN	NaN
10	NaN	NaN
11	NaN	NaN
12	NaN	NaN
13	0.93	NaN
14	0.89	0.93
15	0.79	0.89
16	0.81	0.79
17	0.72	0.81
18	0.86	0.72
19	0.82	0.86
20	0.78	0.82
21	0.82	0.78
22	0.87	0.82
23	0.79	0.87
24	0.82	0.79
25	0.77	0.82
26	0.83	0.77
27	0.68	0.83
28	0.81	0.68
29	0.71	0.81
..	...	...
800	0.83	0.90
801	0.87	0.83
802	0.83	0.87
803	0.80	0.83
804	0.89	0.80
805	0.89	0.89
806	0.87	0.89
807	0.82	0.87
808	0.83	0.82
809	0.83	0.83
810	0.79	0.83
811	0.79	0.79
812	0.83	0.79
813	0.90	0.83

```
814         0.91         0.90
815         0.91         0.91
816         0.76         0.91
817         0.72         0.76
818         0.79         0.72
819         0.75         0.79
820         0.77         0.75
821         0.82         0.77
822         0.79         0.82
823         0.77         0.79
824         0.66         0.77
825         0.84         0.66
826         0.76         0.84
827         0.75         0.76
828         0.68         0.75
829         0.81         0.68

[830 rows x 77 columns]
```

In [19]: *#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', 'humidity'], axis=1
#daily_dia=daily_dia[['energy_sum','t-1','t-2','t-3','t-4','t-5','t-6','t-7','t-8','t
daily_dia.head(5)

Out[19]:   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 ... humidity(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

            humidity(t-6) humidity(t-7) humidity(t-8) humidity(t-9) humidity(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

            humidity(t-11) humidity(t-12) humidity(t-13) humidity(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 73 columns]
```

In [20]: *#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=daily_dia.drop([829,828,827,826,825,824,823, 822,821,820,819,818,817,816,81
daily_dia.tail(5)
```

Out[20]:   energy_sum   y+1   y+2   y+3   y+4   y+5 \
        795   11.409880   11.620778   12.729659   11.753871   11.344805   11.800777
        796   11.620778   12.729659   11.753871   11.344805   11.800777   11.685169
        797   12.729659   11.753871   11.344805   11.800777   11.685169   11.857957
        798   11.753871   11.344805   11.800777   11.685169   11.857957   11.710582
        799   11.344805   11.800777   11.685169   11.857957   11.710582   12.078164

                     y+6   y+7   y+8   y+9 ... humidity(t-5) \
        795   11.685169   11.857957   11.710582   12.078164 ...   0.80
        796   11.857957   11.710582   12.078164   11.280011 ...   0.89
        797   11.710582   12.078164   11.280011   11.095584 ...   0.89
        798   12.078164   11.280011   11.095584   11.415105 ...   0.87
        799   11.280011   11.095584   11.415105   11.445403 ...   0.82

               humidity(t-6) humidity(t-7) humidity(t-8) humidity(t-9) \
        795   0.83   0.87   0.83   0.90
        796   0.80   0.83   0.87   0.83
        797   0.89   0.80   0.83   0.87
        798   0.89   0.89   0.80   0.83
        799   0.87   0.89   0.89   0.80

               humidity(t-10) humidity(t-11) humidity(t-12) humidity(t-13) \
        795   0.81   0.83   0.90   0.81
        796   0.90   0.81   0.83   0.90
        797   0.83   0.90   0.81   0.83
        798   0.87   0.83   0.90   0.81
        799   0.83   0.87   0.83   0.90

               humidity(t-14)
        795   0.85
        796   0.81
        797   0.90
        798   0.83
        799   0.81

[5 rows x 73 columns]
```

```
In [21]: len(daily_dia)

Out[21]: 786

In [22]: #normalitzem
         scaler=preprocessing.MinMaxScaler(feature_range=(0, 1))
         daily_dia_norm=scaler.fit_transform(daily_dia)

In [23]: #Seleccionem dades per test i train
         y_daily=daily_dia_norm[:,0:31]

         X_daily=daily_dia_norm[:,31:80]

         #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], 14,3))

In [24]: # definim model
         import tensorflow as tf
         model =Sequential()
         model.add(LSTM(50, activation='relu', input_shape=(14, 3)))
         model.add(Dense(30))
         model.compile(optimizer='adam', loss='mse', metrics=['accuracy'])

In [25]: 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]
```

13

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

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

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

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

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


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

sumScores=sumScores+testScore
```

In [26]:
```python
#Dividim la suma de scores de test entre el nombre de prediccions per obtenir la mitj
sumScores/(lenght-n_train)
```

Out[26]: 0.06892668040865255

In [27]:
```python
#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[27]:
```
[[[0.5271562337875366,
   0.5230936408042908,
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   0.5090453624725342,
   0.5070761442184448,
   0.514576494693756,
```

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In [15]:

In [16]:

In [29]:
```python
#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)):
```

```python
        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)):
```

```python
        llista_p17.append(llista_p[i][0][17])

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

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

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

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

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

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

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

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

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

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

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

llista_p29=list()
for i in range(len(llista_p)):
```

```
        llista_p29.append(llista_p[i][0][29])


In [ ]:

In [31]: score0=math.sqrt(mean_squared_error(y_daily[n_train:lenght,0], llista_p0))
         print("Error predicció 1 dia següent: {}".format(score0))
         score1=math.sqrt(mean_squared_error(y_daily[n_train:lenght,1], llista_p1))
         print("Error predicció 2 dia següent: {}".format(score1))
         score2=math.sqrt(mean_squared_error(y_daily[n_train:lenght,2], llista_p2))
         print("Error predicció 3 dia següent: {}".format(score2))
         score3=math.sqrt(mean_squared_error(y_daily[n_train:lenght,3], llista_p3))
         print("Error predicció 4 dia següent: {}".format(score3))
         score4=math.sqrt(mean_squared_error(y_daily[n_train:lenght,4], llista_p4))
         print("Error predicció 5 dia següent: {}".format(score4))
         score5=math.sqrt(mean_squared_error(y_daily[n_train:lenght,5], llista_p5))
         print("Error predicció 6 dia següent: {}".format(score5))
         score6=math.sqrt(mean_squared_error(y_daily[n_train:lenght,6], llista_p6))
         print("Error predicció 7 dia següent: {}".format(score6))
         score7=math.sqrt(mean_squared_error(y_daily[n_train:lenght,7], llista_p7))
         print("Error predicció 8 dia següent: {}".format(score7))
         score8=math.sqrt(mean_squared_error(y_daily[n_train:lenght,8], llista_p8))
         print("Error predicció 9 dia següent: {}".format(score8))
         score9=math.sqrt(mean_squared_error(y_daily[n_train:lenght,9], llista_p9))
         print("Error predicció 10 dia següent: {}".format(score9))
         score10=math.sqrt(mean_squared_error(y_daily[n_train:lenght,10], llista_p10))
         print("Error predicció 11 dia següent: {}".format(score10))
         score11=math.sqrt(mean_squared_error(y_daily[n_train:lenght,11], llista_p11))
         print("Error predicció 12 dia següent: {}".format(score11))
         score12=math.sqrt(mean_squared_error(y_daily[n_train:lenght,12], llista_p12))
         print("Error predicció 13 dia següent: {}".format(score12))
         score13=math.sqrt(mean_squared_error(y_daily[n_train:lenght,13], llista_p13))
         print("Error predicció 14 dia següent: {}".format(score13))
         score14=math.sqrt(mean_squared_error(y_daily[n_train:lenght,14], llista_p14))
         print("Error predicció 15 dia següent: {}".format(score14))
         score15=math.sqrt(mean_squared_error(y_daily[n_train:lenght,15], llista_p15))
         print("Error predicció 16 dia següent: {}".format(score15))
         score16=math.sqrt(mean_squared_error(y_daily[n_train:lenght,16], llista_p16))
         print("Error predicció 17 dia següent: {}".format(score16))
         score17=math.sqrt(mean_squared_error(y_daily[n_train:lenght,17], llista_p17))
         print("Error predicció 18 dia següent: {}".format(score17))
         score18=math.sqrt(mean_squared_error(y_daily[n_train:lenght,18], llista_p18))
         print("Error predicció 19 dia següent: {}".format(score18))
         score19=math.sqrt(mean_squared_error(y_daily[n_train:lenght,19], llista_p19))
         print("Error predicció 20 dia següent: {}".format(score19))
         score20=math.sqrt(mean_squared_error(y_daily[n_train:lenght,20], llista_p20))
         print("Error predicció 21 dia següent: {}".format(score20))
         score21=math.sqrt(mean_squared_error(y_daily[n_train:lenght,21], llista_p21))
```

```python
        print("Error predicció 22 dia següent: {}".format(score21))
        score22=math.sqrt(mean_squared_error(y_daily[n_train:lenght,22], llista_p22))
        print("Error predicció 23 dia següent: {}".format(score22))
        score23=math.sqrt(mean_squared_error(y_daily[n_train:lenght,23], llista_p23))
        print("Error predicció 24 dia següent: {}".format(score23))
        score24=math.sqrt(mean_squared_error(y_daily[n_train:lenght,24], llista_p24))
        print("Error predicció 25 dia següent: {}".format(score24))
        score25=math.sqrt(mean_squared_error(y_daily[n_train:lenght,25], llista_p25))
        print("Error predicció 26 dia següent: {}".format(score25))
        score26=math.sqrt(mean_squared_error(y_daily[n_train:lenght,26], llista_p26))
        print("Error predicció 27 dia següent: {}".format(score26))
        score27=math.sqrt(mean_squared_error(y_daily[n_train:lenght,27], llista_p27))
        print("Error predicció 28 dia següent: {}".format(score27))
        score28=math.sqrt(mean_squared_error(y_daily[n_train:lenght,28], llista_p28))
        print("Error predicció 29 dia següent: {}".format(score28))
        score29=math.sqrt(mean_squared_error(y_daily[n_train:lenght,29], llista_p29))
        print("Error predicció 30 dia següent: {}".format(score29))
```

```
Error predicció 1 dia següent: 0.0517674846947019
Error predicció 2 dia següent: 0.05875857088069256
Error predicció 3 dia següent: 0.05996710310864313
Error predicció 4 dia següent: 0.063240292186323
Error predicció 5 dia següent: 0.06464806120939023
Error predicció 6 dia següent: 0.06643611975507316
Error predicció 7 dia següent: 0.06250287603382185
Error predicció 8 dia següent: 0.06772488329297555
Error predicció 9 dia següent: 0.06833839305091337
Error predicció 10 dia següent: 0.06536540721933945
Error predicció 11 dia següent: 0.06690999986736115
Error predicció 12 dia següent: 0.06763488751375481
Error predicció 13 dia següent: 0.0703799700273436
Error predicció 14 dia següent: 0.06986123844026844
Error predicció 15 dia següent: 0.07644288843246858
Error predicció 16 dia següent: 0.0758084864451491
Error predicció 17 dia següent: 0.07662276859169308
Error predicció 18 dia següent: 0.08243698863658136
Error predicció 19 dia següent: 0.08254980862716012
Error predicció 20 dia següent: 0.08425262321990495
Error predicció 21 dia següent: 0.0815456921645032
Error predicció 22 dia següent: 0.08896538947147788
Error predicció 23 dia següent: 0.0909732341860795
Error predicció 24 dia següent: 0.09035352219432138
Error predicció 25 dia següent: 0.09149716224950434
Error predicció 26 dia següent: 0.09466612670674061
Error predicció 27 dia següent: 0.09873184999193975
Error predicció 28 dia següent: 0.0980867613833593
Error predicció 29 dia següent: 0.1063962037207158
Error predicció 30 dia següent: 0.10654834424417801
```

```
In [33]: predis=list()

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

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

         predis

Out[33]: array([[0.52715623, 0.52309364, 0.51933515, ..., 0.51215506, 0.50611192,
                  0.51540601],
                 [0.48523936, 0.48519921, 0.48861355, ..., 0.47064248, 0.47164813,
                  0.46743488],
                 [0.55202329, 0.55460119, 0.5415976 , ..., 0.53585649, 0.52790457,
                  0.52897882],
                 ...,
                 [0.47296301, 0.52102315, 0.55801648, ..., 0.49286389, 0.46171388,
                  0.46532845],
                 [0.51969486, 0.5103358 , 0.54083794, ..., 0.48386681, 0.46043915,
                  0.46495312],
                 [0.51657307, 0.50840724, 0.55068475, ..., 0.46025538, 0.43526897,
                  0.41740608]])

In [39]: ##Mostrem
         plt.plot(predis[40], label="predit")
         plt.plot(y_daily[n_train+40], label="real")
         plt.legend(loc="lower right")
         plt.show()
```
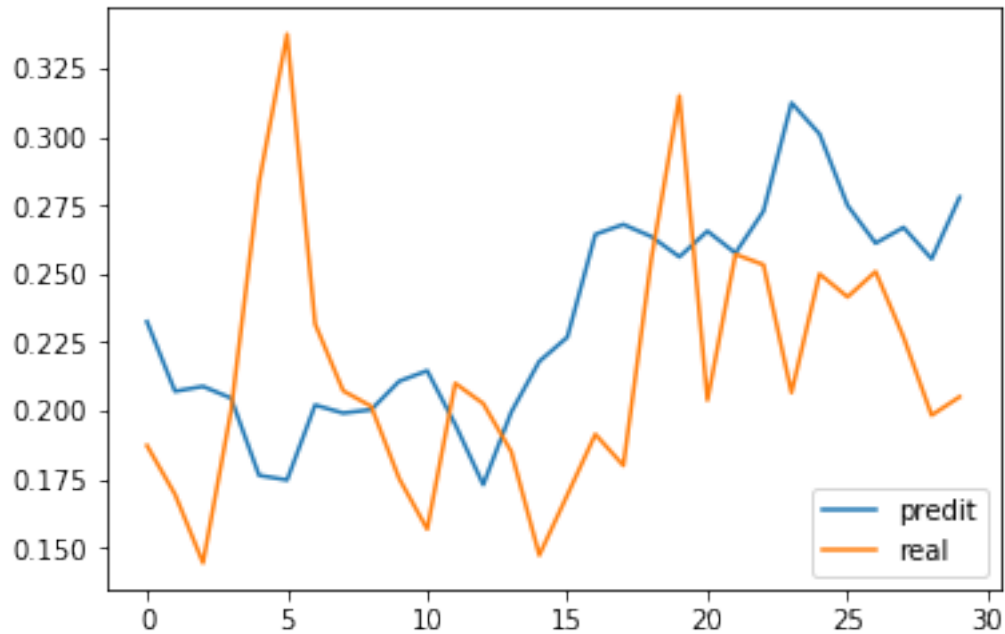
```
In [43]:  ##Mostrem
          plt.plot(llista_p0, label="predit1")
          plt.plot(y_daily[n_train:lenght,0], label="real")
          plt.legend(loc="lower right")
          plt.title("Predicció 1 dia següent")
          plt.show()

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


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

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

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

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

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

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

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

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

Predicció 1 dia següent
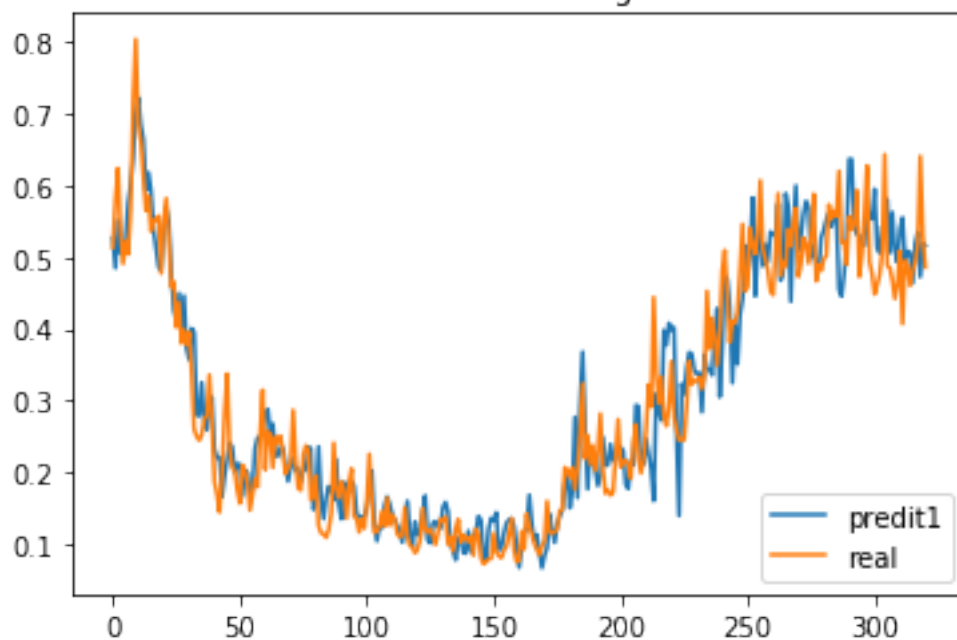
Predicció 2 dia següent
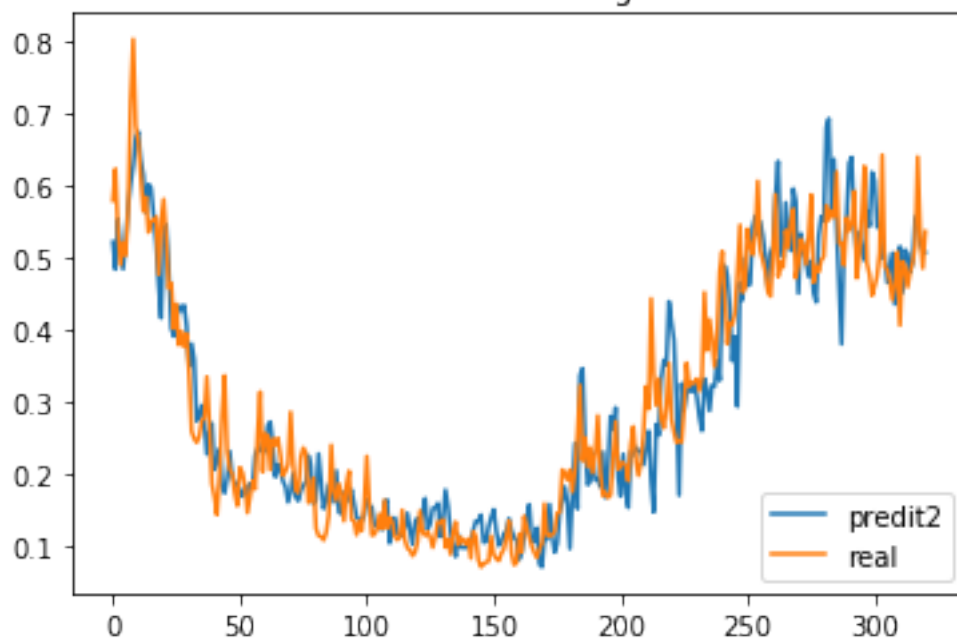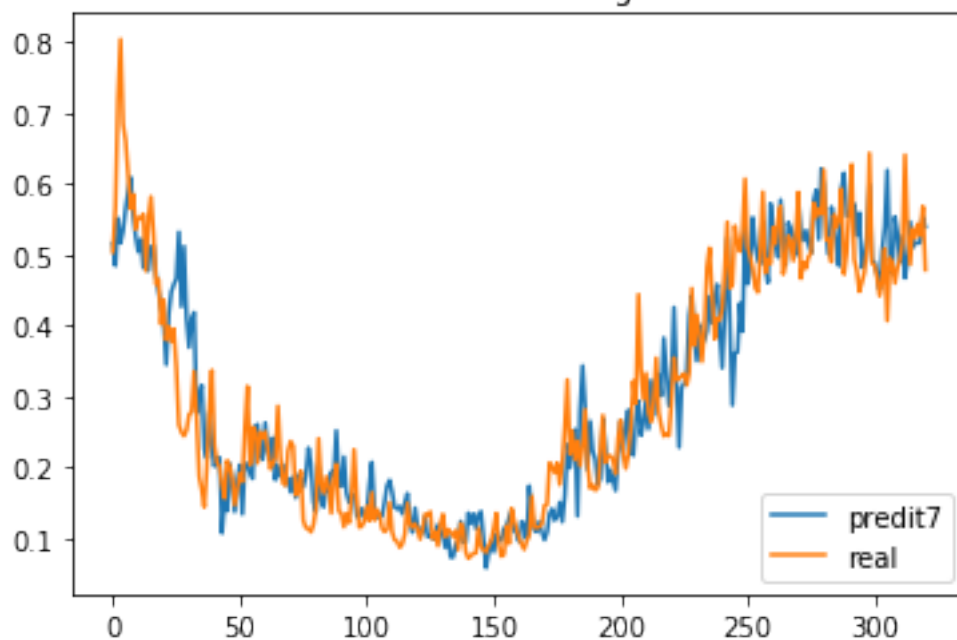
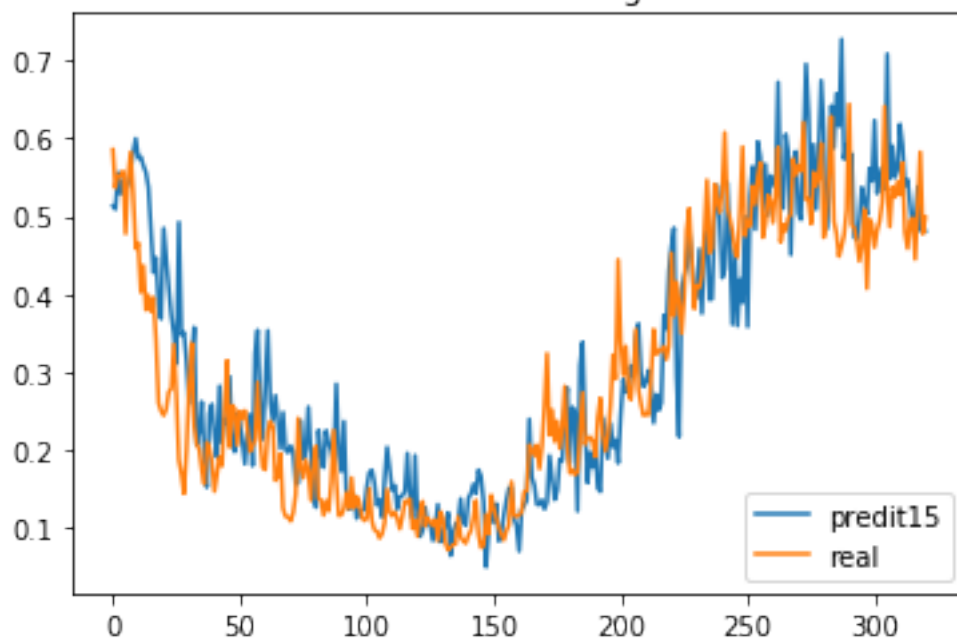Predicció 3 dia següent
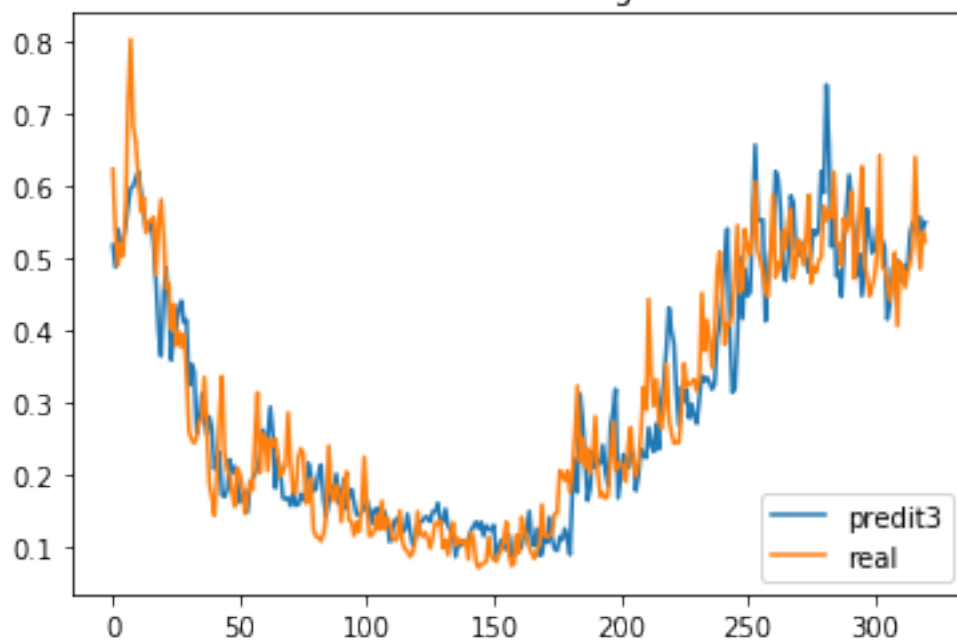
Predicció 4 dia següent
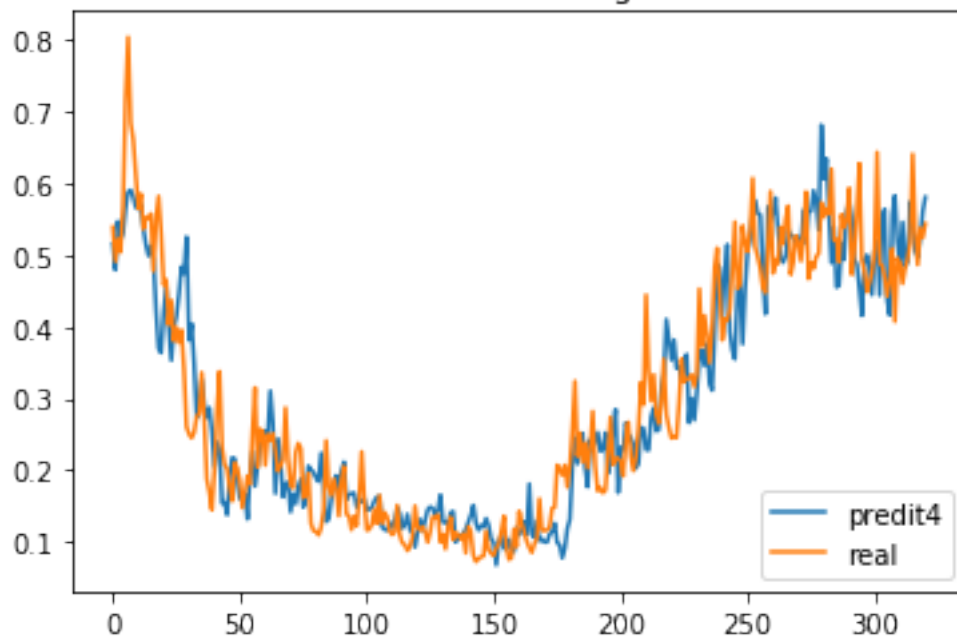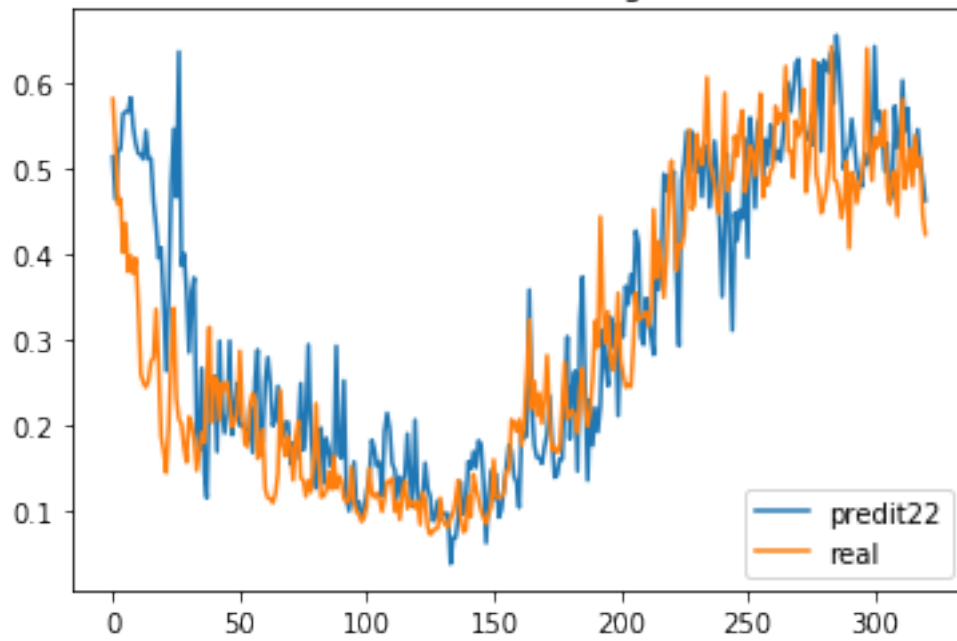
Predicció 5 dia següent
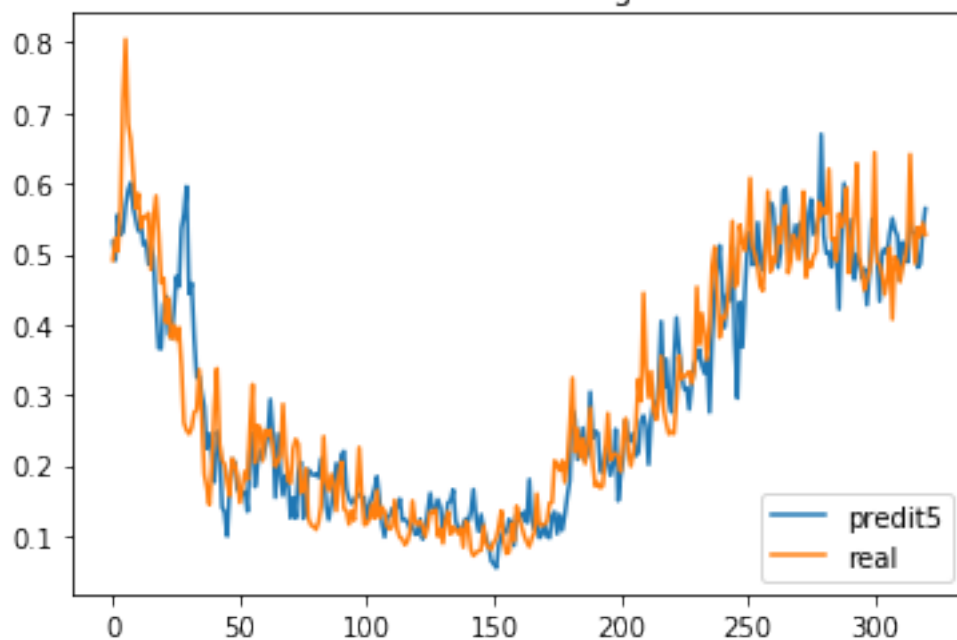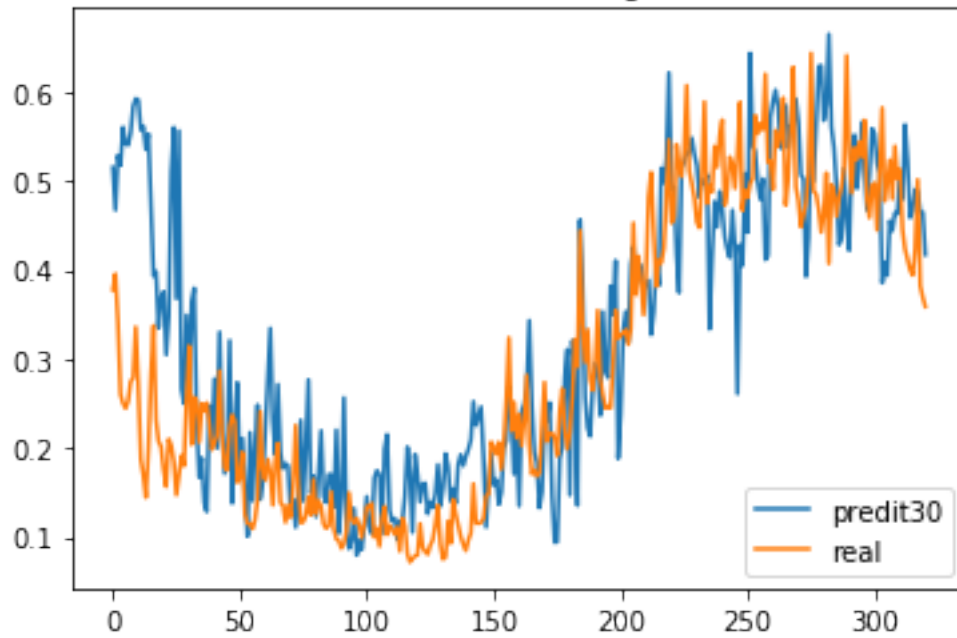

Predicció 6 dia següent
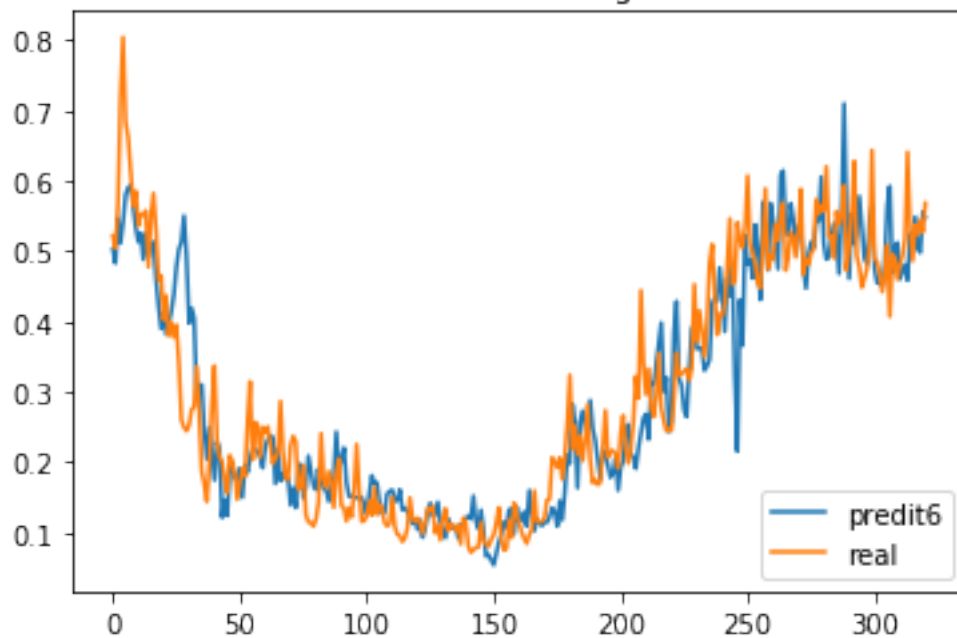
Predicció 7 dia següent

Predicció 15 dia següent

Predicció 22 dia següent

Predicció 30 dia següent

In [ ]:

In [ ]: