MM4

_Xarxa_walkforward_normalitzat_multivariate2_multistep_7 dies

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

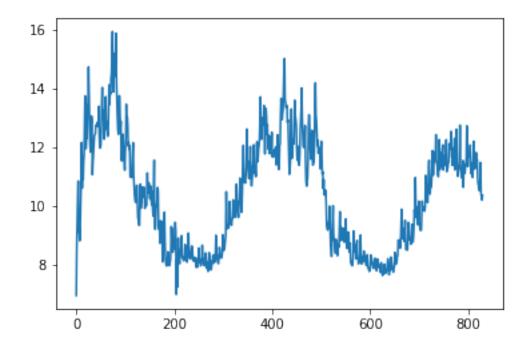
```
Out [2]:
                date apparentTemperatureMax sunsetTimeHour weekday season \
       0 2013-01-16
                                      -0.15
                                                         16
                                                                   3 winter
       1 2013-01-20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

	${\tt cloudCover}$	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

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

In [16]: plt.plot(daily_dia)

Out[16]: [<matplotlib.lines.Line2D at 0x24f9e752240>]



```
daily_dia['y+5']=daily_dia['energy_sum'].shift(-5)
daily_dia['y+6']=daily_dia['energy_sum'].shift(-6)
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['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['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

- 5.3		_		_		
Out[4]:	index	date	energy_sum	${\tt apparentTemperatureMax}$	humidity \setminus	
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.	0.75
21	818	2011-12-14	12.392776	2.	88 0.79
22	795	2011-12-15	12.307079		38 0.77
23	763	2011-12-16	13.376080	0.	
24	770	2011-12-17	13.511968		72 0.86
25	808	2011-12-18	14.732271		98 0.84
26	757	2011-12-19	13.774471		0.94
27	803	2011-12-20	12.709106	4.	
28	748	2011-12-21	12.148570	12.	
29	806	2011-12-22	11.839403	12.	14 0.87
• •	• • •				
800	21	2014-01-29	11.800777		53 0.90
801	10	2014-01-30	11.685169		86 0.91
802	12	2014-01-31	11.857957		27 0.91
803	129	2014-02-01	11.710582	6.	
804	155	2014-02-02	12.078164	6.	
805	145	2014-02-03	11.280011		59 0.79
806	134	2014-02-04	11.095584		63 0.75
807	123	2014-02-05	11.415105	5.	
808	118	2014-02-06	11.445403		34 0.82
809	122	2014-02-07 2014-02-08	10.972318		44 0.79
810 811	126 149	2014-02-08	11.569300 12.202967	3.	67 0.77 91 0.66
812	132	2014-02-09	11.264175		0.84
813	143	2014-02-10	11.452649		06 0.76
814	131	2014-02-12	11.679099		73 0.75
815	164		11.285737		42 0.68
816	125	2014-02-14	11.816914	12.	
817	141	2014-02-15	11.490470		79 0.69
818	151	2014-02-16	11.582159		88 0.76
819	116	2014-02-17	10.979566	10.	
820	128	2014-02-18	10.781898	10.	
821	115	2014-02-19	10.674624	10.	
822	121	2014-02-20	10.573835	12.	
823	174	2014-02-21	10.518126	10.	
824	167	2014-02-22	10.776242	11.	
825	139	2014-02-23	11.480411	11.	
826	162	2014-02-24	10.411403	14.	
827	136	2014-02-25	10.294997	11.	
828	161	2014-02-26	10.202945	11.	
829	133	2014-02-27	10.356350	10.	

	y+1	y+2	y+3	y+4	y+5		temp(t-5)	\
0	8.536480	9.499781	10.267707	10.850805	9.103382		NaN	
1	9.499781	10.267707	10.850805	9.103382	9.274873		NaN	
2	10.267707	10.850805	9.103382	9.274873	8.813513		NaN	
3	10.850805	9.103382	9.274873	8.813513	9.227707		NaN	
4	9.103382	9.274873	8.813513	9.227707	10.145910		NaN	
5	9.274873	8.813513	9.227707	10.145910	10.780273		10.36	
6	8.813513	9.227707	10.145910	10.780273	12.163127		12.93	
7	9.227707	10.145910	10.780273	12.163127	10.609714		13.03	
8	10.145910	10.780273	12.163127	10.609714	11.673417		12.96	
	10.780273	12.163127	10.609714	11.673417	10.889362	• • •		
9						• • •	13.54	
10	12.163127	10.609714	11.673417	10.889362	11.525150	• • •	12.58	
11	10.609714	11.673417	10.889362	11.525150	11.759837	• • •	13.47	
12	11.673417	10.889362	11.525150	11.759837	12.633801	• • •	11.87	
13	10.889362	11.525150	11.759837	12.633801	13.749174	• • •	12.15	
14	11.525150	11.759837	12.633801	13.749174	11.951958	• • •	5.33	
15	11.759837	12.633801	13.749174	11.951958	11.957446	• • •	11.42	
16	12.633801	13.749174	11.951958	11.957446	12.392776	• • •	6.66	
17	13.749174	11.951958	11.957446	12.392776	12.307079		3.13	
18	11.951958	11.957446	12.392776	12.307079	13.376080		3.77	
19	11.957446	12.392776	12.307079	13.376080	13.511968		5.14	
20	12.392776	12.307079	13.376080	13.511968	14.732271		12.89	
21	12.307079	13.376080	13.511968	14.732271	13.774471		3.99	
22	13.376080	13.511968	14.732271	13.774471	12.709106		3.14	
23	13.511968	14.732271	13.774471	12.709106	12.148570		5.72	
24	14.732271	13.774471	12.709106	12.148570	11.839403		5.94	
25	13.774471	12.709106	12.148570	11.839403	12.254989		12.08	
26	12.709106	12.148570	11.839403	12.254989	13.065317		2.88	
27	12.148570	11.839403	12.254989	13.065317	12.949429		4.38	
28	11.839403	12.254989	13.065317	12.949429	11.065577		0.99	
29	12.254989	13.065317	12.949429	11.065577	11.494944		1.72	
	12.204303							
800	11.685169	11.857957	11.710582	12.078164	11.280011	• • •	5.72	
		11.710582				• • •		
80:			12.078164	11.280011	11.095584	• • •	11.77	
802		12.078164	11.280011	11.095584	11.415105	• • •	5.99	
803		11.280011	11.095584	11.415105	11.445403	• • •	4.34	
804		11.095584	11.415105	11.445403	10.972318	• • •	6.34	
808		11.415105	11.445403	10.972318	11.569300	• • •	2.53	
806		11.445403	10.972318	11.569300	12.202967	• • •	5.86	
80		10.972318	11.569300	12.202967	11.264175	• • •	5.27	
808	3 10.972318	11.569300	12.202967	11.264175	11.452649		6.86	
808	9 11.569300	12.202967	11.264175	11.452649	11.679099		6.48	
810	12.202967	11.264175	11.452649	11.679099	11.285737		4.59	
81	1 11.264175	11.452649	11.679099	11.285737	11.816914		5.63	
812	2 11.452649	11.679099	11.285737	11.816914	11.490470		5.86	
813	3 11.679099	11.285737	11.816914	11.490470	11.582159		7.34	
814	11.285737	11.816914	11.490470	11.582159	10.979566		8.44	
81	5 11.816914	11.490470	11.582159	10.979566	10.781898		5.67	

816	11.490470	11.582159	10.979566	10.781898	10.674624	• • •	3.91
817	11.582159	10.979566	10.781898	10.674624	10.573835	• • •	7.07
818	10.979566	10.781898	10.674624	10.573835	10.518126	• • •	4.06
819	10.781898	10.674624	10.573835	10.518126	10.776242		4.73
820	10.674624	10.573835	10.518126	10.776242	11.480411		3.42
821	10.573835	10.518126	10.776242	11.480411	10.411403		12.02
822	10.518126	10.776242	11.480411	10.411403	10.294997		5.79
823	10.776242	11.480411	10.411403	10.294997	10.202945		7.88
824	11.480411	10.411403	10.294997	10.202945	10.356350		10.67
825	10.411403	10.294997	10.202945	10.356350	NaN		10.13
826	10.294997	10.202945	10.356350	NaN	NaN		10.13
827	10.202945	10.356350	NaN	NaN	NaN		12.50
828	10.356350	NaN	NaN	NaN	NaN		10.15
829	NaN	NaN	NaN	NaN	NaN		11.63
	temp(t-6)	temp(t-7)	humidity(t-	-1) humidi	ty(t-2) hu	midity	/(t-3) \
0	NaN	NaN		NaN	NaN	,	NaN
1	NaN	NaN		. 93	NaN		NaN
2	NaN	NaN		.89	0.93		NaN
3	NaN	NaN		.79	0.89		0.93
4	NaN	NaN		.81	0.79		0.89
5	NaN	NaN		.72	0.81		0.79
6	10.36	NaN		.86	0.72		0.81
7	12.93	10.36		.82	0.86		0.72
8	13.03	12.93		.78	0.82		0.86
9	12.96	13.03		.82	0.78		0.82
10	13.54	12.96		.87	0.82		0.78
11	12.58	13.54		.79	0.87		0.82
12	13.47	12.58		.82	0.79		0.87
13	11.87	13.47		. 02 . 77	0.79		0.79
14	12.15	11.87		.83	0.02		0.79
15	5.33	12.15		.68	0.77		0.82
16	11.42	5.33					
				.81	0.68		0.83
17	6.66	11.42		.71	0.81		0.68
18	3.13	6.66		.81	0.71		0.81
19	3.77	3.13		. 88	0.81		0.71
20	5.14	3.77		.84	0.88		0.81
21	12.89	5.14		.75	0.84		0.88
22	3.99	12.89		.79	0.75		0.84
23	3.14	3.99		.77	0.79		0.75
24	5.72	3.14		.88	0.77		0.79
25	5.94	5.72		.86	0.88		0.77
26	12.08	5.94		.84	0.86		0.88
27	2.88	12.08		.94	0.84		0.86
28	4.38	2.88		.81	0.94		0.84
29	0.99	4.38		.94	0.81		0.94
					• • •		• • •
800	4.93	10.02	0.	. 83	0.79		0.79

801	5.72	4.93		0.90		0.83		0.79
802	11.77	5.72		0.91		0.90		0.83
803	5.99	11.77		0.91		0.91		0.90
804	4.34	5.99		0.76		0.91		0.91
805	6.34	4.34		0.72		0.76		0.91
806	2.53	6.34		0.79		0.72		0.76
807	5.86	2.53		0.75		0.79		0.72
808	5.27	5.86		0.77		0.75		0.79
809	6.86	5.27		0.82		0.77		0.75
810	6.48	6.86		0.79		0.82		0.77
811	4.59	6.48		0.77		0.79		0.82
812	5.63	4.59		0.66		0.77		0.79
813	5.86	5.63		0.84		0.66		0.77
814	7.34	5.86		0.76		0.84		0.66
815	8.44	7.34		0.75		0.76		0.84
816	5.67	8.44		0.73		0.75		0.76
817	3.91	5.67		0.81		0.73		0.75
818	7.07	3.91		0.69		0.81		0.73
	4.06	7.07		0.09		0.69		
819								0.81
820	4.73	4.06		0.83		0.76		0.69
821	3.42	4.73		0.87		0.83		0.76
822	12.02	3.42		0.87		0.87		0.83
823	5.79	12.02		0.84		0.87		0.87
824	7.88	5.79		0.72		0.84		0.87
825	10.67	7.88		0.71		0.72		0.84
826	10.13	10.67		0.76		0.71		0.72
827	10.13	10.13		0.74		0.76		0.71
828	12.50	10.13		0.78		0.74		0.76
829	10.15	12.50		0.73		0.78		0.74
			(- -)		(>		<i>(</i> –)	
_	humidity(t-4)	humidit	•	humidit	•	humidit	-	
0	NaN		NaN		NaN		NaN	
1	NaN		NaN		NaN		NaN	
2	NaN		NaN		NaN		NaN	
3	NaN		NaN		NaN		NaN	
4	0.93		NaN		NaN		NaN	
5	0.89		0.93		NaN		NaN	
6	0.79		0.89		0.93		NaN	
7	0.81		0.79		0.89		0.93	
8	0.72		0.81		0.79		0.89	
9	0.86		0.72		0.81		0.79	
10	0.82		0.86		0.72		0.81	
11	0.78		0.82		0.86		0.72	
12	0.82		0.78		0.82		0.86	
13	0.87		0.82		0.78		0.82	
14	0.79		0.87		0.82		0.78	
15	0.82		0.79		0.87		0.82	
16	0.77		0.82		0.79		0.87	

17	0.83	0.77	0.82	0.79
18	0.68	0.83	0.77	0.82
19	0.81	0.68	0.83	0.77
20	0.71	0.81	0.68	0.83
21	0.81	0.71	0.81	0.68
22	0.88	0.81	0.71	0.81
23	0.84	0.88	0.81	0.71
24	0.75	0.84	0.88	0.81
25	0.79	0.75	0.84	0.88
26	0.77	0.79	0.75	0.84
27	0.88	0.77	0.79	0.75
28	0.86	0.88	0.77	0.79
29	0.84	0.86	0.88	0.77
 800	0.83	0.83	0.82	0.87
801	0.79	0.83	0.83	0.82
802	0.79	0.79	0.83	0.83
803	0.83	0.79	0.79	0.83
804	0.90	0.83	0.79	0.79
805	0.91	0.90	0.83	0.79
806	0.91	0.91	0.90	0.83
807	0.76	0.91	0.91	0.90
808	0.72	0.76	0.91	0.91
809	0.79	0.72	0.76	0.91
810	0.75	0.79	0.72	0.76
811	0.77	0.75	0.79	0.72
812	0.82	0.77	0.75	0.79
813	0.79	0.82	0.77	0.75
814	0.77	0.79	0.82	0.77
815	0.66	0.77	0.79	0.82
816	0.84	0.66	0.77	0.79
817	0.76	0.84	0.66	0.77
818	0.75	0.76	0.84	0.66
819	0.68	0.75	0.76	0.84
820	0.81	0.68	0.75	0.76
821	0.69	0.81	0.68	0.75
822	0.76	0.69	0.81	0.68
823	0.83	0.76	0.69	0.81
824	0.87	0.83	0.76	0.69
825	0.87	0.87	0.83	0.76
826	0.84	0.87	0.87	0.83
827	0.72	0.84	0.87	0.87
828	0.71	0.72	0.84	0.87
829	0.76	0.71	0.72	0.84

[830 rows x 32 columns]

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

```
\#daily\_dia=daily\_dia[['energy\_sum', 't-1', 't-2', 't-3', 't-4', 't-5', 't-6', 't-7', 't-8', 'text']
        daily_dia.head(5)
Out [5]:
           energy_sum
                               y+1
                                           y+2
                                                      y+3
                                                                  y+4
                                                                              y+5 \
              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
                                                 9.103382
        2
             9.499781
                        10.267707
                                   10.850805
                                                             9.274873
                                                                         8.813513
        3
           10.267707
                       10.850805
                                     9.103382
                                                 9.274873
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                                                                         9.227707
            10.850805
                         9.103382
                                     9.274873
                                                 8.813513
                                                             9.227707
                                                                        10.145910
                              t-1
                                         t-2
                                                   t-3
                                                              temp(t-5)
                                                                          temp(t-6)
        0
            9.274873
                              NaN
                                         NaN
                                                                     NaN
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                        6.952692
            8.813513
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                        8.536480
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                                   8.536480
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           10.780273
                       10.267707
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                                   9.499781
                                                                     NaN
                                                                                NaN
                                       humidity(t-2)
                                                                        humidity(t-4)
           temp(t-7)
                       humidity(t-1)
                                                        humidity(t-3)
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                                 0.79
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        4
                  NaN
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                                                 0.79
                                                                 0.89
                                                                                  0.93
                           humidity(t-6)
                                           humidity(t-7)
           humidity(t-5)
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                      NaN
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                                                       NaN
        [5 rows x 28 columns]
In [6]: #Eliminem les 8 primeres files ja que contenen NaN (valors buits)
        daily_dia=daily_dia.drop([0,1,2,3,4,5,6])
        daily_dia=daily_dia.drop([829,828,827,826,825,824,823])
In [7]: len(daily_dia)
Out[7]: 816
In [8]: #normalitzem
        scaler=preprocessing.MinMaxScaler(feature_range=(0, 1))
        daily_dia_norm=scaler.fit_transform(daily_dia)
In [47]:
```

#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

```
Out[47]: array([0.25530572, 0.2361457, 0.43137821, 0.36623108, 0.28043381,
                0.17280805, 0. , 0.48124829, 0.45688475, 0.48316452,
                0.46728716, 0.46920339, 0.46646592, 0.39611278
In [9]: #Seleccionem dades per test i train
       y_daily=daily_dia_norm[:,0:7]
       X_daily=daily_dia_norm[:,7:32]
        #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], 7,3))
In [10]: # definim model
        import tensorflow as tf
        model =Sequential()
        model.add(LSTM(50, activation='relu', input_shape=(7, 3)))
        model.add(Dense(7))
        model.compile(optimizer='adam', loss='mse', metrics=['accuracy'])
WARNING:tensorflow:From c:\users\laura\appdata\local\programs\python\python37\lib\site-package
Instructions for updating:
Colocations handled automatically by placer.
In [11]: import math
        from sklearn.metrics import mean_squared_error
         #Walk forward per test i train
        minim=100
        n train=465
        lenght=len(daily_dia)
        llista_evaluate=list()
        llista_prediccions=list()
        llista_preditrain=list()
        llista_scores=list()
        llista_scoretrain=list()
         sumScores=0
        for i in range(n_train,lenght):
            minim=minim+1
             X_train, X_test= X_daily[minim:i], X_daily[i:i+1]
```

```
y_train,y_test= y_daily[minim:i],y_daily[i:i+1]
             #fem fit al model
             model.fit(X_train, y_train, epochs=50, verbose=0)
             #mostrem score per cada model
             score=model.evaluate(X_test,y_test,verbose=0)
             llista_evaluate.append(score)
             #Predim per cadascun
             preditest=model.predict(X_test)
             llista_prediccions.append(preditest)
             preditrain=model.predict(X_train)
             llista_preditrain.append(preditrain)
             trainScore = math.sqrt(mean_squared_error(y_train, preditrain))
             llista_scoretrain.append(trainScore )
             testScore = math.sqrt(mean_squared_error(y_test, preditest))
             llista_scores.append(testScore)
             sumScores=sumScores+testScore
WARNING:tensorflow:From c:\users\laura\appdata\local\programs\python\python37\lib\site-package
Instructions for updating:
Use tf.cast instead.
In [12]: #Dividim la suma de scores de test entre el nombre de prediccions per obtenir la mitj
         sumScores/(lenght-n_train)
Out[12]: 0.06033992050178901
In [13]: #Fem llista amb les prediccions
        llista_p=list()
         for i in range(len(llista_prediccions)):
             llista_p.append(llista_prediccions[i].tolist())
         llista_p
Out[13]: [[[0.47505271434783936,
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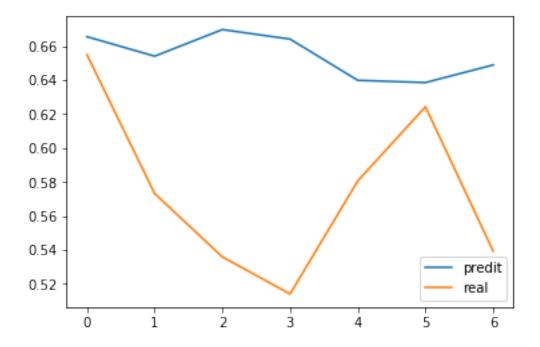
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```
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In [14]: #Fem llista amb la predicció de només el dia sequent
         llista_p0=list()
         for i in range(len(llista_p)):
             llista_p0.append(llista_p[i][0][0])
In [15]: #Fem 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])
In [16]: #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])
In []:
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))
Error predicció 1 dia següent: 0.04975955658693996
Error predicció 2 dia següent: 0.06420079884421213
Error predicció 3 dia següent: 0.06884187128687086
Error predicció 4 dia següent: 0.07035422316853544
Error predicció 5 dia següent: 0.07254077215230657
Error predicció 6 dia següent: 0.0715804144599901
Error predicció 7 dia següent: 0.0740504058150359
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),7) )
        predis
Out[18]: array([[0.47505271, 0.4601247, 0.46164554, ..., 0.45837522, 0.45488119,
                 0.45954892],
                [0.43478709, 0.42017138, 0.44147265, ..., 0.4388338, 0.42266944,
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                [0.48552036, 0.48532718, 0.48447308, ..., 0.48912787, 0.48586544,
                 0.48541611],
                [0.49909586, 0.45631331, 0.48773682, ..., 0.51776969, 0.47214293,
                0.44204101],
                [0.38323864, 0.47044623, 0.519023, ..., 0.42142859, 0.43846232,
                0.43210453],
                [0.4610346, 0.51375842, 0.52927363, ..., 0.33719963, 0.39687079,
                 0.42260802]])
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()
```



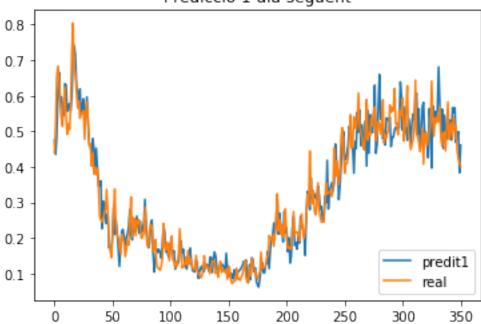
```
In [22]: ##Mostrem
        plt.plot(llista_p0, label="predit1")
         plt.plot(y_daily[n_train:lenght,0], label="real")
         plt.legend(loc="lower right")
         plt.title("Predicció 1 dia següent")
         plt.show()
         plt.plot(llista_p1, label="predit2")
         plt.plot(y_daily[n_train:lenght,1], 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()
```

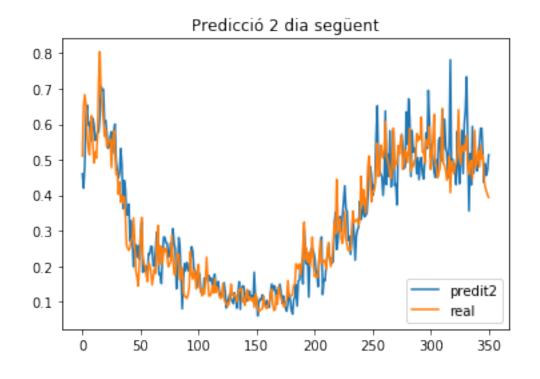
```
plt.plot(llista_p4, label="predit5")
plt.plot(y_daily[n_train:lenght,4], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 5 dia següent")
plt.show()

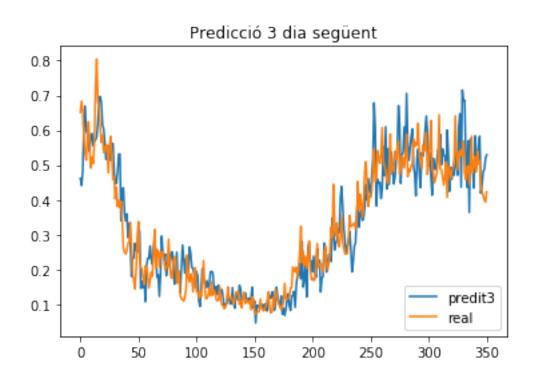
plt.plot(llista_p5, label="predit6")
plt.plot(y_daily[n_train:lenght,5], label="real")
plt.legend(loc="lower right")
plt.title("Predicció 6 dia següent")
plt.show()

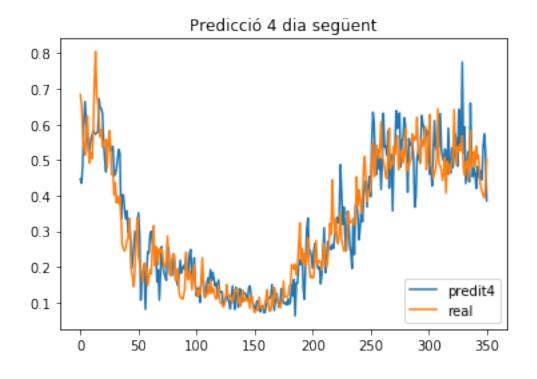
plt.plot(llista_p6, label="predit7")
plt.plot(y_daily[n_train:lenght,6], label="real")
plt.legend(loc="lower right")
plt.legend(loc="lower right")
plt.title("Predicció 7 dia següent")
plt.show()
```

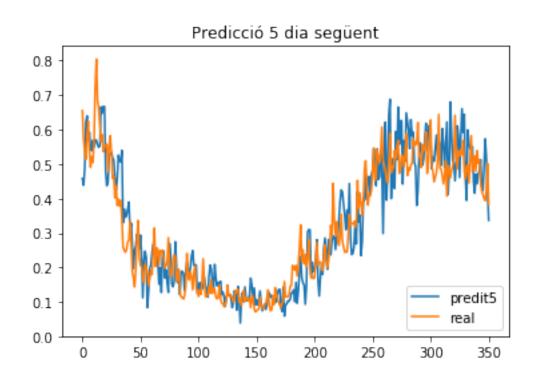
Predicció 1 dia següent

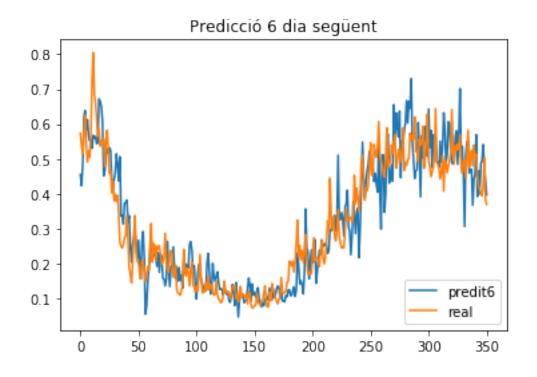


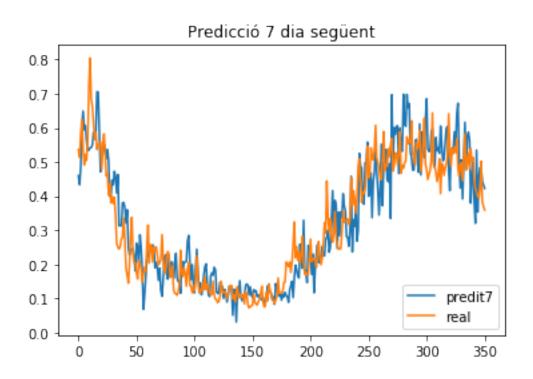












In []: In []: