```
 1 C:\Users\A02290684\AppData\Local\Programs\Python\Python37\
   python.exe "C:/Users/A02290684/Desktop/clean energy/
   Project/.idea/Acorn Csv/Acorn Merged Prediction.py"
 2 Using TensorFlow backend.
 3             energy_sum  weather_cluster  ...  Acorn_value3
   Acorn_value4
 4 day
                                          ...

 5 2011-12-08      10.401                2  ...           85
             76
 6 2011-12-09      19.200                2  ...           85
             76
 7 2011-12-10      16.977                1  ...           85
             76
 8 2011-12-11      24.725                1  ...           85
             76
 9 2011-12-12      17.176                2  ...           85
             76
10 2011-12-13      28.143                2  ...           85
             76
11 2011-12-14      23.295                2  ...           85
             76
12 2011-12-15      18.007                2  ...           85
             76
13 2011-12-16      19.771                1  ...           85
             76
14 2011-12-17      13.233                1  ...           85
             76
15
16 [10 rows x 7 columns]
17  This problem is unconstrained.
18 RUNNING THE L-BFGS-B CODE
19
20           * * *
21
22 Machine precision = 2.220D-16
23  N =            18    M =              10
24
25 At X0         0 variables are exactly at the bounds
26
27 At iterate    0    f=  3.21348D+00    |proj g|=  6.43374D-
   02
28
29 At iterate    5    f=  3.19765D+00    |proj g|=  4.18346D-
```

```
29 02
30
31 At iterate    10    f=  3.19504D+00    |proj g|=  5.93036D-
   03
32
33 At iterate    15    f=  3.19365D+00    |proj g|=  1.25401D-
   02
34
35 At iterate    20    f=  3.19186D+00    |proj g|=  1.28493D-
   02
36
37 At iterate    25    f=  3.17737D+00    |proj g|=  1.18567D-
   01
38
39 At iterate    30    f=  3.17485D+00    |proj g|=  8.82292D-
   03
40
41 At iterate    35    f=  3.17281D+00    |proj g|=  5.10786D-
   03
42
43 At iterate    40    f=  3.17274D+00    |proj g|=  2.11356D-
   03
44
45 At iterate    45    f=  3.17268D+00    |proj g|=  1.67449D-
   02
46
47 At iterate    50    f=  3.17260D+00    |proj g|=  2.14514D-
   03
48
49              * * *
50
51 Tit   = total number of iterations
52 Tnf   = total number of function evaluations
53 Tnint = total number of segments explored during Cauchy
   searches
54 Skip  = number of BFGS updates skipped
55 Nact  = number of active bounds at final generalized
   Cauchy point
56 Projg = norm of the final projected gradient
57 F     = final function value
58
59              * * *
60
61    N    Tit     Tnf   Tnint  Skip  Nact    Projg        F
62    18     50      60     1     0     0   2.145D-03   3.
```

```
62 173D+00
63   F =   3.1726027976362250
64
65 STOP: TOTAL NO. of ITERATIONS REACHED LIMIT

66
67  Cauchy                  time 0.000E+00 seconds.
68  Subspace minimization time 0.000E+00 seconds.
69  Line search            time 0.000E+00 seconds.
70
71  Total User time 0.000E+00 seconds.
72
73              energy_sum  weather_cluster  ...
   Acorn_value4  predicted
74 day
                                            ...

75 2014-01-20      29.709                1  ...
   50  22.735841
76 2014-01-21      34.734                1  ...
   50  17.337770
77 2014-01-22      32.480                1  ...
   50  32.071594
78 2014-01-23      39.367                1  ...
   50  31.521592
79 2014-01-24      29.418                1  ...
   50  34.555459
80 2014-01-25      32.832                1  ...
   50  29.410265
81 2014-01-26      41.147                2  ...
   50  29.729849
82 2014-01-27      26.678                2  ...
   50  30.809756
83 2014-01-28      43.997                1  ...
   50  27.788003
84 2014-01-29      41.014                1  ...
   50  35.421786
85
86 [10 rows x 8 columns]
87              energy_sum  weather_cluster  ...
   Acorn_value4  predicted
88 day
                                            ...

89 2011-12-08      10.401                2  ...
```

```
 89 76  23.184576
 90 2011-12-09       19.200                2  ...
    76  10.402143
 91 2011-12-10       16.977                1  ...
    76  19.295650
 92 2011-12-11       24.725                1  ...
    76  16.977918
 93 2011-12-12       17.176                2  ...
    76  24.630920
 94 2011-12-13       28.143                2  ...
    76  17.177132
 95 2011-12-14       23.295                2  ...
    76  28.143725
 96 2011-12-15       18.007                2  ...
    76  23.295946
 97 2011-12-16       19.771                1  ...
    76  18.103114
 98 2011-12-17       13.233                1  ...
    76  19.771961
 99
100 [10 rows x 8 columns]
101 2019-12-03 14:48:03,276 ERROR - Monitor initialization
    failed with error 80070002 (1). Automatic configuration
    updates will not be received
102 2019-12-03 14:48:03,376 ERROR - 2460 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\Videos
103 2019-12-03 14:48:03,386 ERROR - 2460 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\Searches
104 2019-12-03 14:48:03,394 ERROR - 2460 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\Saved Games
105 2019-12-03 14:48:03,396 ERROR - 2460 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\Pictures
106 2019-12-03 14:48:03,398 ERROR - 2460 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\OneDrive
107 2019-12-03 14:48:03,400 ERROR - 2460 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\Music
108 2019-12-03 14:48:03,408 ERROR - 2460 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\Links
```

```
109  2019-12-03 14:48:03,413 ERROR - 2460 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Favorites
110  2019-12-03 14:48:03,416 ERROR - 2460 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Downloads
111  2019-12-03 14:48:03,418 ERROR - 2460 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Documents
112  2019-12-03 14:48:03,421 ERROR - 2460 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Desktop
113  2019-12-03 14:48:03,426 ERROR - 2460 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Contacts
114  2019-12-03 14:48:03,429 ERROR - 2460 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\3D Objects
115  2019-12-03 14:48:03,844 ERROR - 12736 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\.android
116  2019-12-03 14:48:03,849 ERROR - 12492 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\3D Objects
117  2019-12-03 14:48:03,850 ERROR - 7892 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Contacts
118  2019-12-03 14:48:03,851 ERROR - 2460 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Desktop
119  2019-12-03 14:48:03,851 ERROR - 12492 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Documents
120  2019-12-03 14:48:03,852 ERROR - 7892 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Downloads
121  2019-12-03 14:48:03,852 ERROR - 2460 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Favorites
122  2019-12-03 14:48:03,853 ERROR - 12492 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Links
123  2019-12-03 14:48:03,853 ERROR - 7892 Unable to get icon
     for location (The operation completed successfully.): C:\
     Users\A02290684\Music
```

```
124 2019-12-03 14:48:03,854 ERROR - 2460 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\OneDrive
125 2019-12-03 14:48:03,854 ERROR - 12736 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\Pictures
126 2019-12-03 14:48:03,855 ERROR - 7892 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\Saved Games
127 2019-12-03 14:48:03,856 ERROR - 2036 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\Searches
128 2019-12-03 14:48:03,858 ERROR - 2460 Unable to get icon
    for location (The operation completed successfully.): C:\
    Users\A02290684\Videos
129
130 Process finished with exit code 0
131
```