```
ssh: //root@103. 254. 67. 181: 10006/usr/bi n/
 1
   python -u /home/sunfengzhen/pycharm/
   weather_zky/model/main.py
 2 Using TensorFlow backend.
 3 #data process has been done
 4 [0] train-rmse: 20.6081
 5 Will train until train-rmse hasn't
   improved in 3 rounds.
 6 [1] train-rmse: 19.4887
  [2] train-rmse: 18.5077
  [3] train-rmse: 17.6369
 9 [4] train-rmse: 16.8757
10 [5] train-rmse: 16.2075
   [6] train-rmse: 15.6143
11
12 [7] train-rmse: 15.0882
13 [8] train-rmse: 14.6195
14 [9] train-rmse: 14.1947
15 [10] train-rmse: 13.8143
16 [11] train-rmse: 13.4845
17 [12] train-rmse: 13.1808
18 [13] train-rmse: 12.9115
19 [14] train-rmse: 12.6837
20 [15] train-rmse: 12.4641
   [16]train-rmse: 12.2507
21
```

```
[17]train-rmse: 12.0676
22
   [18]train-rmse: 11.8842
23
  [19]train-rmse: 11.7482
24
   [20]train-rmse: 11.5911
25
  [21]train-rmse: 11.4281
26
   [22]train-rmse: 11.3046
27
  [23]train-rmse: 11.1798
28
  [24]train-rmse: 11.0633
29
30
   [25]train-rmse: 10.9399
   [26]train-rmse: 10.8255
31
  [27]train-rmse: 10.718
32
33
  [28]train-rmse: 10.6251
   [29]train-rmse: 10.5099
34
  [30]train-rmse: 10.4052
35
36 [31] train-rmse: 10.2871
37
   [32]train-rmse: 10. 1766
  [33]train-rmse: 10.0808
38
  [34]train-rmse: 10.0113
39
  [35]train-rmse: 9.91759
40
   [36]train-rmse: 9.83217
41
   [37]train-rmse: 9.74204
42
  [38]train-rmse: 9.70775
43
   [39]train-rmse: 9.60227
44
   [40]train-rmse: 9.52714
45
```

```
[41]train-rmse: 9.47797
46
   [42]train-rmse: 9.41412
47
  [43]train-rmse: 9.28472
48
49 [44] train-rmse: 9.1849
50 [45] train-rmse: 9. 15267
   [46]train-rmse: 9.12418
51
   [47]train-rmse: 9.06856
52
53 [48] train-rmse: 9.00422
   [49]train-rmse: 8.96818
54
   [50]train-rmse: 8.92849
55
56 [51] train-rmse: 8.89074
57
   [52]train-rmse: 8.86197
   [53]train-rmse: 8.80529
58
59 [54] train-rmse: 8.72762
60 [55]train-rmse: 8.65699
   [56]train-rmse: 8.58712
61
   [57]train-rmse: 8.57169
62
   [58]train-rmse: 8.54677
63
   [59]train-rmse: 8.48673
64
   [60]train-rmse: 8.41965
65
   [61]train-rmse: 8.36421
66
67 [62] train-rmse: 8.32443
   [63]train-rmse:8.29194
68
   [64]train-rmse: 8.23122
69
```

```
[65]train-rmse: 8.21992
70
   [66]train-rmse: 8.15909
71
   [67]train-rmse: 8.08226
72
   [68]train-rmse: 8.01144
73
   [69]train-rmse: 7.93799
74
   [70]train-rmse: 7.85665
75
   [71]train-rmse: 7.81562
76
   [72]train-rmse: 7.74707
77
78
   [73]train-rmse: 7.67954
   [74]train-rmse: 7.62904
79
   [75]train-rmse: 7.61202
80
   [76]train-rmse: 7.5457
81
82
   [77]train-rmse: 7.46366
   [78]train-rmse: 7.41352
83
   [79]train-rmse: 7.37514
84
85
   [80]train-rmse: 7.36295
   [81]train-rmse: 7.31278
86
   [82]train-rmse: 7.26035
87
   [83]train-rmse: 7.21333
88
   [84]train-rmse: 7.16235
89
   [85]train-rmse: 7.10409
90
   [86]train-rmse: 7.0536
91
   [87]train-rmse: 6.99308
92
   [88]train-rmse: 6.92628
93
```

```
File - main
    [89]train-rmse: 6.88213
 94
    [90]train-rmse: 6.82851
 95
    [91]train-rmse: 6.80017
 96
    [92]train-rmse: 6.75161
 97
    [93]train-rmse: 6.71926
 98
    [94]train-rmse: 6.6708
 99
    [95]train-rmse: 6.6373
100
101 [96] train-rmse: 6.58376
    [97]train-rmse: 6.52581
102
    [98]train-rmse: 6.5114
103
104 [99] train-rmse: 6.46907
105 [0] train-rmse: 20.6145
106 Will train until train-rmse hasn't
    improved in 3 rounds.
    [1] train-rmse: 19.505
107
    [2] train-rmse:18.5193
108
    [3] train-rmse: 17.6641
109
    [4] train-rmse: 16.8875
110
111
    [5] train-rmse: 16.2302
    [6] train-rmse: 15.6328
112
    [7] train-rmse: 15.1197
113
    [8] train-rmse: 14.6662
114
    [9] train-rmse:14.2618
115
    [10]train-rmse: 13.8874
```

[57]train-rmse: 8.59162

[58]train-rmse: 8.52811

163

[79]train-rmse: 7.56254

[80]train-rmse: 7.50988

[81]train-rmse: 7.4675

185

186

187

188

[82]train-rmse: 7.38097

235

[28]train-rmse: 10.578

[0] train-rmse:20.652

```
Will train until train-rmse hasn't
308
    improved in 3 rounds.
    [1] train-rmse: 19.5382
309
    [2] train-rmse: 18.5699
310
    [3] train-rmse: 17.7046
311
    [4] train-rmse: 16.9595
312
    [5] train-rmse: 16.2857
313
    [6] train-rmse: 15.6916
314
    [7] train-rmse: 15.165
315
    [8] train-rmse: 14.6964
316
    [9] train-rmse: 14.2859
317
   [10]train-rmse: 13.9012
318
    [11]train-rmse: 13.5904
319
    [12]train-rmse: 13. 2974
320
321 [13] train-rmse: 13.038
322
    [14]train-rmse: 12.8029
    [15]train-rmse: 12.5892
323
    [16]train-rmse: 12.4022
324
    [17]train-rmse: 12.2067
325
    [18]train-rmse: 12.0416
326
    [19]train-rmse: 11.8777
327
    [20]train-rmse: 11.7215
328
    [21]train-rmse: 11.57
329
    [22]train-rmse: 11.4508
330
```

```
File - main
    [23]train-rmse: 11. 3436
331
332
    [24]train-rmse: 11. 2261
    [25]train-rmse: 11. 1126
333
334
    [26]train-rmse: 11.0075
    [27] train-rmse: 10.911
335
    [28]train-rmse: 10.8043
336
    [29]train-rmse: 10.724
337
    [30]train-rmse: 10.616
338
339
    [31]train-rmse: 10.5014
    [32]train-rmse: 10.3819
340
    [33]train-rmse: 10.2791
341
342 [34] train-rmse: 10. 1886
    [35]train-rmse: 10.1009
343
    [36]train-rmse: 9.99102
344
    [37]train-rmse: 9.93959
345
    [38]train-rmse: 9.84285
346
    [39]train-rmse: 9.7543
347
    [40]train-rmse: 9.6683
348
    [41]train-rmse: 9.55971
349
    [42]train-rmse: 9.53429
350
351
    [43]train-rmse: 9. 42366
    [44]train-rmse: 9.3648
352
    [45]train-rmse: 9.28033
353
354
    [46]train-rmse: 9.22324
```

```
File - main
    [95]train-rmse: 6.65711
403
    [96]train-rmse: 6.63593
404
    [97]train-rmse: 6.56307
405
406 [98]train-rmse: 6.52231
407 [99]train-rmse: 6.47199
    [0] train-rmse: 20.5707
408
    Will train until train-rmse hasn't
409
    improved in 3 rounds.
    [1] train-rmse: 19.4675
410
411
    [2] train-rmse: 18.4971
412
    [3] train-rmse: 17.6408
    [4] train-rmse: 16.8784
413
414
    [5] train-rmse: 16.2063
    [6] train-rmse: 15.6162
415
    [7] train-rmse: 15.0948
416
417
    [8] train-rmse:14.638
    [9] train-rmse: 14.2349
418
    [10]train-rmse: 13.8648
419
    [11]train-rmse: 13.5365
420
421
    [12]train-rmse: 13.245
    [13]train-rmse: 12.9783
422
423 [14] train-rmse: 12.7286
    [15]train-rmse: 12.5078
424
    [16]train-rmse: 12.3069
425
```

```
File - main
    [89]train-rmse: 6.81659
498
    [90]train-rmse: 6.76193
499
    [91]train-rmse: 6.70216
500
    [92]train-rmse: 6.64817
501
502 [93] train-rmse: 6.64218
    [94]train-rmse: 6.58152
503
    [95]train-rmse: 6.56949
504
505 [96] train-rmse: 6.50642
    [97]train-rmse: 6.44526
506
507
    [98]train-rmse: 6.40261
508 [99] train-rmse: 6.363
509 [0] train-rmse: 21.5169
    Will train until train-rmse hasn't
510
    improved in 3 rounds.
    [1] train-rmse: 21.1883
511
    [2] train-rmse:20.8669
512
    [3] train-rmse: 20.5507
513
    [4] train-rmse: 20. 2405
514
515
    [5] train-rmse: 19.9351
    [6] train-rmse: 19.636
516
    [7] train-rmse: 19.3395
517
    [8] train-rmse: 19.0491
518
    [9] train-rmse:18.7634
519
    [10]train-rmse: 18.4829
520
```

[34]train-rmse: 12.9751

566 [56] train-rmse: 9.51496

567

568

[57]train-rmse: 9.38416

[58]train-rmse: 9.25608

```
File - main
    [83]train-rmse: 6.62815
593
    [84]train-rmse: 6.54235
594
    [85]train-rmse: 6.45741
595
    [86]train-rmse: 6.37543
596
597
    [87]train-rmse: 6.29428
    [88]train-rmse: 6.21495
598
    [89]train-rmse: 6.13603
599
600 [90]train-rmse: 6.05745
    [91]train-rmse: 5.9804
601
    [92]train-rmse: 5.90492
602
603 [93]train-rmse: 5.83156
604 [94] train-rmse: 5.75774
    [95]train-rmse: 5.68559
605
    [96]train-rmse: 5.61452
606
607 [97] train-rmse: 5.54481
    [98]train-rmse: 5.47571
608
    [99]train-rmse: 5.40777
609
    [0] train-rmse: 21.4776
610
    Will train until train-rmse hasn't
611
    improved in 3 rounds.
    [1] train-rmse: 21.1519
612
    [2] train-rmse: 20.8324
613
    [3] train-rmse:20.5148
614
    [4] train-rmse:20.2048
615
```

663

[52]train-rmse: 10.0375

[0] train-rmse: 21.5289

```
Will train until train-rmse hasn't
712
    improved in 3 rounds.
    [1] train-rmse: 21. 2037
713
    [2] train-rmse: 20.8835
714
    [3] train-rmse: 20.5681
715
    [4] train-rmse: 20. 2586
716
    [5] train-rmse: 19.9537
717
    [6] train-rmse: 19.6535
718
    [7] train-rmse:19.3576
719
    [8] train-rmse: 19.0667
720
    [9] train-rmse: 18.7813
721
722 [10] train-rmse: 18.4997
    [11]train-rmse: 18.2249
723
    [12]train-rmse: 17.9533
724
725 [13] train-rmse: 17.6866
    [14]train-rmse: 17.425
726
    [15]train-rmse: 17.1649
727
    [16]train-rmse: 16.9108
728
    [17]train-rmse: 16.6617
729
    [18]train-rmse: 16.4148
730
    [19]train-rmse: 16.1726
731
    [20]train-rmse: 15.936
732
    [21]train-rmse: 15.7035
733
    [22]train-rmse: 15.4743
734
```

[69]train-rmse: 7.97913

[70]train-rmse: 7.87345

[94]train-rmse: 5.75932

```
File - main
    [95]train-rmse: 5.68787
807
    [96]train-rmse: 5.61653
808
    [97]train-rmse: 5.54563
809
    [98]train-rmse: 5.47613
810
    [99]train-rmse: 5.40737
811
    [0] train-rmse: 21.5333
812
    Will train until train-rmse hasn't
813
    improved in 3 rounds.
    [1] train-rmse:21.2055
814
815
    [2] train-rmse: 20.8845
816
    [3] train-rmse: 20.5686
    [4] train-rmse: 20.2586
817
818
    [5] train-rmse: 19.9526
    [6] train-rmse: 19.6544
819
    [7] train-rmse: 19.3583
820
821
     [8] train-rmse: 19.0673
    [9] train-rmse: 18.7826
822
    [10]train-rmse: 18.5019
823
    [11]train-rmse: 18.2265
824
    [12]train-rmse: 17.9557
825
    [13]train-rmse: 17.6884
826
827 [14] train-rmse: 17.4257
828
    [15]train-rmse: 17. 1664
    [16]train-rmse: 16.9122
829
```

```
File - main
    [17]train-rmse: 16.6621
830
     [18]train-rmse: 16.415
831
    [19]train-rmse: 16.1733
832
    [20]train-rmse: 15.935
833
    [21]train-rmse: 15.7026
834
    [22]train-rmse: 15.472
835
    [23]train-rmse: 15.2456
836
    [24]train-rmse: 15.0232
837
     [25]train-rmse: 14.8036
838
    [26]train-rmse: 14.5891
839
    [27]train-rmse: 14.3781
840
841
    [28]train-rmse: 14. 1698
    [29]train-rmse: 13.9637
842
    [30]train-rmse: 13.7614
843
    [31]train-rmse: 13.5629
844
845
     [32]train-rmse: 13.3684
    [33]train-rmse: 13.1771
846
    [34]train-rmse: 12.9873
847
    [35]train-rmse: 12.8013
848
    [36]train-rmse: 12.6193
849
    [37]train-rmse: 12.4404
850
    [38]train-rmse: 12.2648
851
    [39]train-rmse: 12.0891
852
    [40]train-rmse: 11.9183
853
```

```
File - main
    [89]train-rmse: 6.13825
902
    [90]train-rmse: 6.06039
903
    [91]train-rmse: 5.98391
904
    [92]train-rmse: 5.9078
905
    [93]train-rmse: 5.83329
906
    [94]train-rmse: 5.76095
907
    [95]train-rmse: 5.68973
908
909 [96] train-rmse: 5.61812
910
    [97]train-rmse: 5.54731
    [98]train-rmse: 5.47813
911
912 [99] train-rmse: 5.41065
913 [0] train-rmse: 21.5647
    Will train until train-rmse hasn't
914
    improved in 3 rounds.
    [1] train-rmse: 21.2368
915
    [2] train-rmse: 20.9166
916
    [3] train-rmse: 20.5992
917
    [4] train-rmse: 20.289
918
    [5] train-rmse: 19.9819
919
    [6] train-rmse: 19.6801
920
921
    [7] train-rmse: 19.3836
    [8] train-rmse: 19.0938
922
    [9] train-rmse:18.8072
923
    [10]train-rmse: 18.5268
924
```

```
File - main
    [35]train-rmse: 12.8265
949
950
    [36]train-rmse: 12.6446
    [37]train-rmse: 12.4644
951
952
    [38]train-rmse: 12.2881
953
    [39]train-rmse: 12.1141
    [40]train-rmse: 11.9407
954
    [41]train-rmse: 11.773
955
    [42]train-rmse: 11.6061
956
    [43]train-rmse: 11.443
957
    [44]train-rmse: 11.2827
958
    [45]train-rmse: 11.1255
959
    [46]train-rmse: 10.9685
960
    [47]train-rmse: 10.8163
961
    [48]train-rmse: 10.6664
962
    [49]train-rmse: 10.5181
963
964
    [50]train-rmse: 10. 3723
    [51]train-rmse: 10.2288
965
    [52]train-rmse: 10.0874
966
    [53]train-rmse: 9.94706
967
    [54]train-rmse: 9.81075
968
    [55]train-rmse: 9.67627
969
    [56]train-rmse: 9.54345
970
     [57]train-rmse: 9.41284
971
    [58]train-rmse: 9.28471
```

1018 building tree 1 of 100 1017 building tree 2 of 100 1018 building tree 4 of 100

1038 building tree 23 of 100 1039 building tree 24 of 100building tree 25 of 100 1040 building tree 26 of 100 1041 1042 building tree 27 of 100 1043 building tree 28 of 100 1044 building tree 29 of 100 1045 building tree 30 of 100 1046 building tree 31 of 100 1047 building tree 32 of 100 1048 building tree 33 of 100 1049 building tree 34 of 100 1050 building tree 35 of 100 1051 building tree 36 of 100 1052 building tree 37 of 100 1053 building tree 38 of 100 1054 building tree 39 of 100 building tree 40 of 100 1055 1056 building tree 41 of 100 1057 building tree 42 of 100 1058 building tree 43 of 100 1059 building tree 44 of 100 1060 building tree 45 of 100 1061 building tree 46 of 100 1062 building tree 47 of 100 1063 building tree 48 of 100

1064	bui I di ng	tree	49	of	100
1065	bui I di ng	tree	50	of	100
1066	bui I di ng	tree	51	of	100
1067	bui I di ng	tree	52	of	100
1068	bui I di ng	tree	53	of	100
1069	bui I di ng	tree	54	of	100
1070	bui I di ng	tree	55	of	100
1071	bui I di ng	tree	56	of	100
1072	bui I di ng	tree	57	of	100
1073	bui I di ng	tree	58	of	100
1074	bui I di ng	tree	59	of	100
1075	bui I di ng	tree	60	of	100
1076	bui I di ng	tree	61	of	100
1077	bui I di ng	tree	62	of	100
1078	bui I di ng	tree	63	of	100
1079	bui I di ng	tree	64	of	100
1080	bui I di ng	tree	65	of	100
1081	bui I di ng	tree	66	of	100
1082	bui I di ng	tree	67	of	100
1083	bui I di ng	tree	68	of	100
1084	bui I di ng	tree	69	of	100
1085	bui I di ng	tree	70	of	100
1086	bui I di ng	tree	71	of	100
1087	bui I di ng	tree	72	of	100

1088	bui I di ng	tree	73	of	100
1089	bui I di ng	tree	74	of	100
1090	bui I di ng	tree	75	of	100
1091	bui I di ng	tree	76	of	100
1092	bui I di ng	tree	77	of	100
1093	bui I di ng	tree	78	of	100
1094	bui I di ng	tree	79	of	100
1095	bui I di ng	tree	80	of	100
1096	bui I di ng	tree	81	of	100
1097	bui I di ng	tree	82	of	100
1098	bui I di ng	tree	83	of	100
1099	bui I di ng	tree	84	of	100
1100	bui I di ng	tree	85	of	100
1101	bui I di ng	tree	86	of	100
1102	bui I di ng	tree	87	of	100
1103	bui I di ng	tree	88	of	100
1104	bui I di ng	tree	89	of	100
1105	bui I di ng	tree	90	of	100
1106	bui I di ng	tree	91	of	100
1107	bui I di ng	tree	92	of	100
1108	bui I di ng	tree	93	of	100
1109	bui I di ng	tree	94	of	100
1110	bui I di ng	tree	95	of	100
1111	bui I di ng	tree	96	of	100

```
1112 building tree 97 of 100
1113 building tree 98 of 100
1114 building tree 99 of 100
1115 building tree 100 of 100
1116 [Parallel (n_j obs=-1)]: Done 88 out of
     100 | elapsed: 1.6min remaining:
     13.1s
1117 [Parallel(n_jobs=-1)]: Done 100 out of
     100 | elapsed: 1.8min finished
1118 [Parallel(n_jobs=32)]: Using backend
     ThreadingBackend with 32 concurrent
     workers.
1119 [Parallel(n_j obs=32)]: Done 1 tasks
           | elapsed: 0.0s
1120 [Parallel (n_j obs=32)]: Done 88 out of
      100 | elapsed: 0.1s remaining:
     0.0s
1121 [Parallel (n_j obs=32)]: Done 100 out of
     100 | elapsed: 0.1s finished
1122 [Parallel (n_jobs=-1)]: Using backend
     ThreadingBackend with 32 concurrent
     workers.
1123 building tree 1 of 100
1124 building tree 2 of 100
```

1144 building tree 22 of 100

1145 building tree 23 of 100

1146 building tree 24 of 100

1147 building tree 25 of 100

```
building tree 27 of 100building tree
1148
     28 of 100building tree 26 of 100
1149
1150
    building tree 29 of 100
1151
    building tree 30 of 100
1153 building tree 31 of 100
1154 building tree 32 of 100
    building tree 33 of 100
1156 building tree 34 of 100
1157 building tree 35 of 100
1158 building tree 36 of 100
     building tree 37 of 100
1159
1160 building tree 38 of 100
1161 building tree 39 of 100
1162 building tree 40 of 100
1163 building tree 41 of 100
1164 building tree 42 of 100
1165 building tree 43 of 100
1166 building tree 44 of 100
1167 building tree 45 of 100
1168 building tree 46 of 100
1169 building tree 47 of 100
1170 building tree 48 of 100
```

1171	bui I di ng	tree	49	of	100
1172	bui I di ng	tree	50	of	100
1173	bui I di ng	tree	51	of	100
1174	bui I di ng	tree	52	of	100
1175	bui I di ng	tree	53	of	100
1176	bui I di ng	tree	54	of	100
1177	bui I di ng	tree	55	of	100
1178	bui I di ng	tree	56	of	100
1179	bui I di ng	tree	57	of	100
1180	bui I di ng	tree	58	of	100
1181	bui I di ng	tree	59	of	100
1182	bui I di ng	tree	60	of	100
1183	bui I di ng	tree	61	of	100
1184	bui I di ng	tree	62	of	100
1185	bui I di ng	tree	63	of	100
1186	bui I di ng	tree	64	of	100
1187	bui I di ng	tree	65	of	100
1188	bui I di ng	tree	66	of	100
1189	bui I di ng	tree	67	of	100
1190	bui I di ng	tree	68	of	100
1191	bui I di ng	tree	69	of	100
1192	bui I di ng	tree	70	of	100
1193	bui I di ng	tree	71	of	100
1194	bui I di ng	tree	72	of	100

1195	bui I di ng	tree	73	of	100
1196	bui I di ng	tree	74	of	100
1197	bui I di ng	tree	75	of	100
1198	bui I di ng	tree	76	of	100
1199	bui I di ng	tree	77	of	100
1200	bui I di ng	tree	78	of	100
1201	bui I di ng	tree	79	of	100
1202	bui I di ng	tree	80	of	100
1203	bui I di ng	tree	81	of	100
1204	bui I di ng	tree	82	of	100
1205	bui I di ng	tree	83	of	100
1206	bui I di ng	tree	84	of	100
1207	bui I di ng	tree	85	of	100
1208	bui I di ng	tree	86	of	100
1209	bui I di ng	tree	87	of	100
1210	bui I di ng	tree	88	of	100
1211	bui I di ng	tree	89	of	100
1212	bui I di ng	tree	90	of	100
1213	bui I di ng	tree	91	of	100
1214	bui I di ng	tree	92	of	100
1215	bui I di ng	tree	93	of	100
1216	bui I di ng	tree	94	of	100
1217	bui I di ng	tree	95	of	100
1218	bui I di ng	tree	96	of	100

```
1219 building tree 97 of 100
1220 building tree 98 of 100
1221 building tree 99 of 100
1222 building tree 100 of 100
1223 [Parallel (n_j obs=-1)]: Done 88 out of
     100 | elapsed: 18.8s remaining:
     2.6s
1224 [Parallel (n_jobs=-1)]: Done 100 out of
     100 | elapsed: 20.6s finished
1225 [Parallel (n_jobs=32)]: Using backend
     ThreadingBackend with 32 concurrent
     workers.
1226 [Parallel (n_j obs=32)]: Done 88 out of
     100 | elapsed: 0.1s remaining:
     0.0s
1227 [Parallel (n_j obs=32)]: Done 100 out of
     100 | elapsed: 0.1s finished
1228 [Parallel (n_jobs=-1)]: Using backend
     ThreadingBackend with 32 concurrent
     workers.
1229 building tree 1 of 100
1230 building tree 2 of 100
1231 building tree 3 of 100
1232 building tree 4 of 100
```

```
File - main
      building tree 5 of 100
1233
     building tree 6 of 100
1234
      building tree 7 of 100building tree 8
1235
      of 100
1236
     building tree 9 of 100
1238 building tree 10 of 100
1239 building tree 11 of 100
1240 building tree 12 of 100
1241 building tree 13 of 100
1242 building tree 14 of 100
1243 building tree 15 of 100
1244 building tree 16 of 100
1245 building tree 17 of 100
1246 building tree 18 of 100
     building tree 19 of 100
      building tree 20 of 100
1248
1249 building tree 21 of 100
1250 building tree 22 of 100
1251 building tree 23 of 100
1252 building tree 24 of 100building tree
     25 of 100building tree 26 of 100
1253
1254
```

1276 building tree 48 of 100

1277	bui I di ng	tree	49	of	100
1278	bui I di ng	tree	50	of	100
1279	bui I di ng	tree	51	of	100
1280	bui I di ng	tree	52	of	100
1281	bui I di ng	tree	53	of	100
1282	bui I di ng	tree	54	of	100
1283	bui I di ng	tree	55	of	100
1284	bui I di ng	tree	56	of	100
1285	bui I di ng	tree	57	of	100
1286	bui I di ng	tree	58	of	100
1287	bui I di ng	tree	59	of	100
1288	bui I di ng	tree	60	of	100
1289	bui I di ng	tree	61	of	100
1290	bui I di ng	tree	62	of	100
1291	bui I di ng	tree	63	of	100
1292	bui I di ng	tree	64	of	100
1293	bui I di ng	tree	65	of	100
1294	bui I di ng	tree	66	of	100
1295	bui I di ng	tree	67	of	100
1296	bui I di ng	tree	68	of	100
1297	bui I di ng	tree	69	of	100
1298	bui I di ng	tree	70	of	100
1299	bui I di ng	tree	71	of	100
1300	bui I di ng	tree	72	of	100

```
building tree 73 of 100
1301
    building tree 74 of 100
1302
1303
     building tree 75 of 100
1304 building tree 76 of 100
1305 building tree 77 of 100
1306 building tree 78 of 100
1307 building tree 79 of 100
1308 building tree 80 of 100
1309 building tree 81 of 100
1310 building tree 82 of 100
1311 building tree 83 of 100
1312 building tree 84 of 100
1313 building tree 85 of 100
1314 building tree 86 of 100
1315 building tree 87 of 100
    building tree 88 of 100
1317 building tree 89 of 100
1318 building tree 90 of 100
1319 building tree 91 of 100
1320 building tree 92 of 100
1321 building tree 93 of 100
1322 building tree 94 of 100
1323 building tree 95 of 100
1324 building tree 96 of 100
```

```
1325 building tree 97 of 100
1326 building tree 98 of 100
1327 building tree 99 of 100
1328 building tree 100 of 100
1329 [Parallel (n_j obs=-1)]: Done 88 out of
     100 | elapsed: 17.4s remaining:
     2.4s
1330 [Parallel (n_jobs=-1)]: Done 100 out of
     100 | elapsed: 19.3s finished
1331 [Parallel (n_jobs=32)]: Using backend
     ThreadingBackend with 32 concurrent
     workers.
1332 [Parallel(n_jobs=32)]: Done 9 tasks
           | elapsed: 0.0s
1333 [Parallel (n_j obs=32)]: Done 88 out of
      100 | elapsed: 0.1s remaining:
     0.0s
1334 [Parallel (n_jobs=32)]: Done 100 out of
     100 | elapsed: 0.1s finished
1335 #rf model has been done
1336 #read data:
1337 #normalization:
1338 #train BiGRU:
1339 #load the pre-trained model:
```

1340	2019-04-25 03:34:58.244978: I
	tensorflow/core/platform/
	cpu_feature_guard.cc:141] Your CPU
	supports instructions that this
	TensorFlow binary was not compiled to
	use: AVX2 FMA
1341	2019-04-25 03: 34: 58. 256569: I
	tensorflow/core/common_runtime/gpu/
	gpu_device.cc:1432] Found device 0
	with properties:
1342	name: GeForce GTX 1080 Ti major: 6
	minor: 1 memoryClockRate(GHz): 1.582
1343	pciBusID: 0000:82:00.0
1344	total Memory: 10.92GiB freeMemory: 10.
	73Gi B
1345	2019-04-25 03:34:58.430267: I
	tensorflow/core/common_runtime/gpu/
	gpu_device.cc:1432] Found device 1
	with properties:
1346	name: GeForce GTX 1080 Ti major: 6
	minor: 1 memoryClockRate(GHz): 1.582
1347	pciBusID: 0000:02:00.0
1348	total Memory: 10.92GiB freeMemory: 10.
	76Gi B

```
1349 2019-04-25 03: 34: 58. 430363:
     tensorflow/core/common_runtime/gpu/
     gpu_device.cc:1511] Adding visible gpu
      devices: 0, 1
1350 2019-04-25 03: 34: 58. 909942:
     tensorflow/core/common_runtime/gpu/
     gpu_device.cc:982] Device interconnect
      StreamExecutor with strength 1 edge
     matrix:
1351 2019-04-25 03: 34: 58. 910023:
     tensorflow/core/common_runtime/gpu/
     gpu_devi ce. cc: 988]
1352 2019-04-25 03: 34: 58. 910033:
     tensorflow/core/common_runtime/qpu/
     gpu_device.cc:1001] 0:
1353 2019-04-25 03: 34: 58, 910040:
     tensorflow/core/common_runtime/gpu/
     gpu_device.cc:1001] 1:
1354 2019-04-25 03: 34: 58. 910554:
     tensorflow/core/common_runtime/gpu/
     gpu_device.cc:1115] Created TensorFlow
      device (/job:localhost/replica:0/task
     :O/device:GPU:O with 10379 MB memory
      -> physical GPU (device: 0, name:
```

```
1354 GeForce GTX 1080 Ti, pci bus id: 0000:
     82:00.0, compute capability: 6.1)
1355 2019-04-25 03: 34: 58. 911223: I
     tensorflow/core/common_runtime/gpu/
     gpu_device.cc:1115] Created TensorFlow
     device (/job:localhost/replica:0/task
     :0/device:GPU:1 with 10409 MB memory
     ) -> physical GPU (device: 1, name:
     GeForce GTX 1080 Ti, pci bus id: 0000:
     02:00.0, compute capability: 6.1)
1356 Train Score: 7.21244 RMSE
1357 Test Score: 13.48796 RMSE
1358 #bigru model has been done
1359
    Process finished with exit code 0
1360
1361
```