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                    代码实现:
                           import tensorflow as tf
                       3.
                           batch size=2
                           seg_len=7
                        5. hidd size=12
                        attention dim=10

    label=tf.one_hot([0,2],10,1,0)

    rnn_outputs=tf.get_variable(name='output', shape=[batch_size, seq_len, hidd_size],

                       11. dtype=tf.float32)
                       12. # Attention mechanism
                       13. sequence_length = rnn_outputs.shape[
                       14. 1].value # the length of sequences processed in the antecedent RNN layer
                       15. hidden_size = rnn_outputs.shape[2].value # hidden size of the RNN laye
                       16. W = tf.Variable(
                       17. tf.truncated normal([hidden size, attention dim],
                          stddev=0.1), name="W"
                       19.
                       20. print("w shape is:", W.get_shape()) #(12, 10)
                       21. b = tf.Variable(tf.random_normal([attention_dim], stddev=0.1),
                       22 name="h")
                       23. print("b shape is:",b.get_shape()) #(10,)
                       24. u = tf.Variable(tf.random_normal([attention_dim], stddev=0.1),
                       25. name="u")
                       26. print("u shape is:",u.get_shape()) #(10,)
                       27. v = tf.tanh(tf.matmul(tf.reshape(rnn_outputs, [-1, hidden_size]), W) + tf.reshape(b, [1, \cdot])
                       28. print("v shape is:",v.get_shape()) #(14, 10)
                       29. vu = tf.matmul(v, tf.reshape(u, [-1, 1]))
                       30. print("vu shape is:",vu.get_shape()) #(14, 1)
                       31. exps = tf.reshape(tf.exp(vu), [-1, sequence_length])
                       32. print("exps shape is:",exps.get_shape()) #(2, 7)
                       33.
                          alphas = exps / tf.reshape(tf.reduce_sum(exps, 1), [-1, 1])
                       34.
                           print("alphas shape is:",alphas.get_shape())# (2, 7)
                       36.
                           # Output of Bi-gru is reduced with attention vector
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                           print("reshape:",tf.reshape(alphas, [-1, sequence_length, 1]).get_shape())#(2, 7, 1)
                           print((rnn_outputs * tf.reshape(alphas, [-1, sequence_length, 1])).get_shape()) #(2, 7, 12
                       39.
                           output = tf.reduce_sum(rnn_outputs * tf.reshape(alphas, [-1, sequence_length, 1]), 1)
                       40.
                           print("output shape is:",output.get_shape())#(2, 12)
                       41.
                       42. logits=tf.layers.dense(output,10)
                       43. logits=tf.nn.softmax(logits)
                       44. print("logits:",logits.get_shape()) #(2, 10)
                       45. cross_entropy=tf.nn.softmax_cross_entropy_with_logits(logits=logits,labels=label)
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                       46. cost=tf.reduce_mean(cross_entropy)
                       47.
                           optim=tf.train.AdamOptimizer(0.03).minimize(cost)
                       50. with tf.Session() as sess:
                       51. sess.run(tf.global_variables_initializer())
                       52. print("logists:", sess.run(logits))
                       53. for i in range(1,20):
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(http://blog.csdn.net/road1992/article/det ails/39395653)

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54. cossst=sess.run(cost) 55. sess.run(optim)

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56. if i%2==0:
  57. print("i is {0}, loss is {1}".format(i, cossst))
w shape is: (12, 10)
b shape is: (10,)
u shape is: (10,)
v shape is: (14, 10)
vu shape is: (14, 1)
exps shape is: (2, 7)
alphas shape is: (2, 7)
reshape: (2, 7, 1)
(2, 7, 12)
output shape is: (2, 12)
logits: (2, 10)
2017-12-08 15:26:22.009274: W tensorflow/core/platform/cpu_feature_guard.cc:45] The TensorFlow library wasn't
compiled to use SSE4.2 instructions, but these are available on your machine and could speed up CPU computations.
2017-12-08 15:26:22.009306: W tensorflow/core/platform/cpu_feature_guard.cc:45] The TensorFlow library wasn't
compiled to use AVX instructions, but these are available on your machine and could speed up CPU computations.
2017-12-08 15:26:22.009314: W tensorflow/core/platform/cpu_feature_guard.cc:45] The TensorFlow library wasn't
compiled to use AVX2 instructions, but these are available on your machine and could speed up CPU computations.
2017-12-08 15:26:22.009322: W tensorflow/core/platform/cpu_feature_guard.cc:45] The TensorFlow library wasn't
compiled to use FMA instructions, but these are available on your machine and could speed up CPU computations.
logists: [[ 0.09686147  0.08603875  0.10925905  0.11028122  0.09818964  0.09983405
 0.10350803 0.10191522 0.10624968 0.08786286]
[ 0.13021383 0.10083188 0.08510906 0.10502309 0.09848842 0.08085372
 0.09499053 0.1028346 0.10391016 0.0977447 ]]
i is 2,loss is 2.2936596870422363
i is 4,loss is 2.245049476623535
i is 6.loss is 2.1709165573120117
i is 8,loss is 2.0626285076141357
i is 10,loss is 1.923459768295288
i is 12,loss is 1.776179313659668
i is 14,loss is 1.6438379287719727
i is 16,loss is 1.545175552368164
i is 18.loss is 1.4922502040863037
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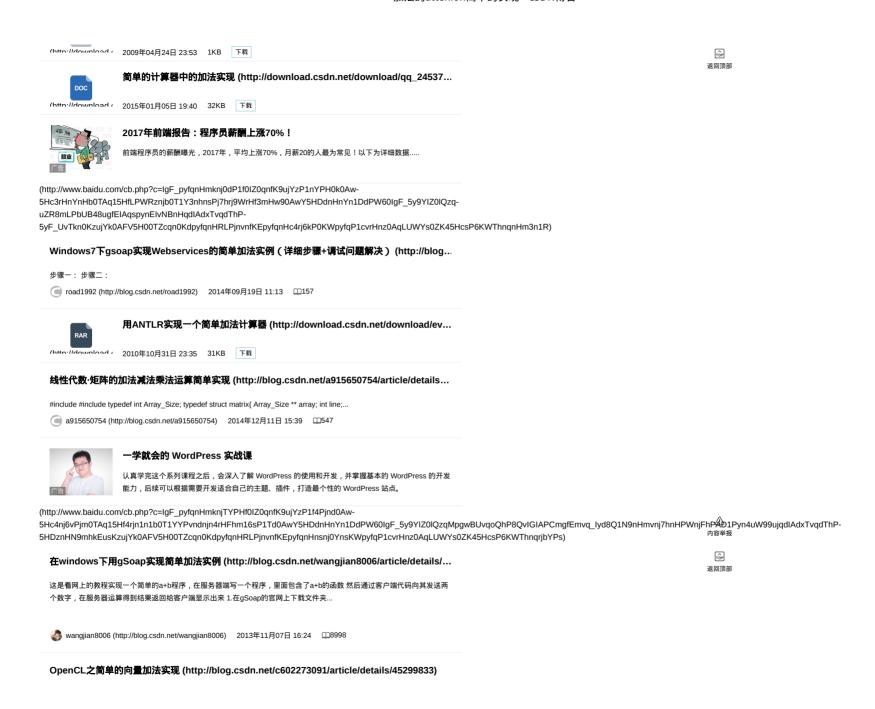
python中pandas库学习笔记 (http://blog.c sdn.net/luoyexuge/article/details/4910458

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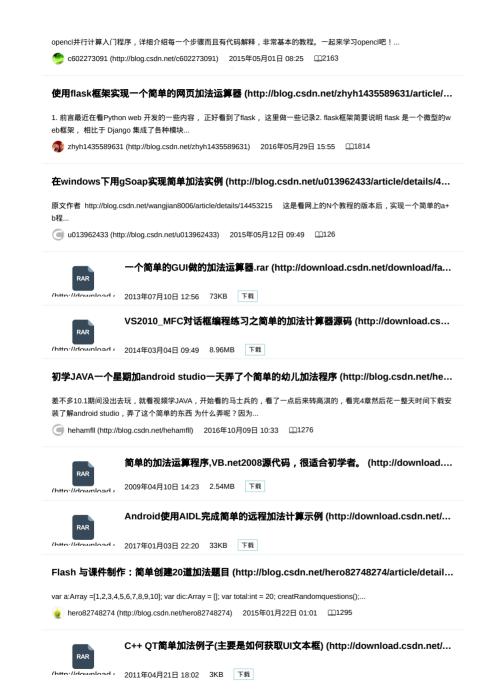
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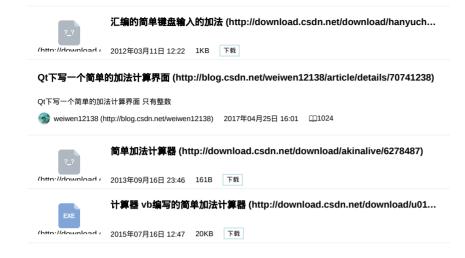
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