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Programming Assignment: Tensorflow

✓ Passed and verified · 100/100 points

Deadline Pass this assignment by April 1, 11:59 PM PDT

Instructions My submission Discussions

← Assignment: Tensorflow

```
Problem with Dropout implementation
MW
       Max Wang Assignment: Tensorflow · 5 days ago
       I add the dropout in forward prop function, and add 'keep_prob' as a hyper-param.
               def forward_propagation(X, parameters, keep_prob):
              A1 = tf.nn.relu(Z1)
               A1 = tf.nn.dropout(A1, keep_prob=keep_prob)
       Then at the top level function "model", I train the model with keep_prob= 0.6.
               def model(X_train, Y_train, X_test, Y_test, learning_rate = 0.0001,
                         num_epochs = 1500, minibatch_size = 32, print_cost = True):
           3
                  # Forward propagation: Build the forward propagation in the tensorflow graph ### START CODE HERE ### (1 line)
           4
                   keep_prob = tf.placeholder(dtype = tf.float32)
                 Z3 = forward_propagation(X, parameters, keep_prob)
           8
                               ### START CODE HERE ### (1 line)
          10
                               _ , minibatch_cost = sess.run([optimizer, cost], \
feed_dict = {X:minibatch_X, Y
          11
                                                        :minibatch_Y, keep_prob:0.6})
                               ### END CODE HERE ###
          13
          14
                       print ("Train Accuracy:", accuracy.eval({X: X_train, Y: Y_train,
          15
                           keep_prob:0.6}))
                       print ("Test Accuracy:", accuracy.eval({X: X_test, Y: Y_test, keep_prob
          16
                           :1.0}))
           17
           18
                       return parameters
```



