Machine Learning Summer 2018 project

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1. **wdbc.py**

my\_batch\_size = 32

my\_epochs = 1000

my\_optimizer = tf.train.AdamOptimizer(learning\_rate = 0.2)

my\_shuffle\_each\_epoch = True

We use 3 hidden layers with activation function ‘relu’. The nodes in the hidden layers are 15, 8 and 2.

Maximum test accuracy achieved = 1.0

1. **wdbc-small.py**

my\_batch\_size = 32

my\_epochs = 1000

my\_optimizer = tf.train.AdamOptimizer(learning\_rate=0.4)

my\_shuffle\_each\_epoch = True

We use 3 hidden layers with activation function ‘relu’. The nodes in the hidden layers are 10, 8 and 5.

The second hidden layer is a dropout layer with p = 0.4. The third hidden layer is a regularization layer.

Maximum test accuracy achieved = 1.0

1. **wine.py**

my\_batch\_size = 32

my\_epochs = 1000

my\_optimizer = tf.train.AdamOptimizer(learning\_rate=0.05)

my\_shuffle\_each\_epoch = True

We use 3 hidden layers with activation function ‘relu’. The nodes in the hidden layers are 8, 6 and 3.

Maximum test accuracy achieved = 1.0

1. **wine-small.py**

my\_batch\_size = 32

my\_epochs = 1000

my\_optimizer = tf.train.AdamOptimizer(learning\_rate=0.01)

my\_shuffle\_each\_epoch = True

We use 3 hidden layers with activation function ‘relu’. The nodes in the hidden layers are 10, 5 and 5.

The second hidden layer is a dropout layer with p = 0.4. The third hidden layer is a regularization layer.

Maximum test accuracy achieved = 1.0