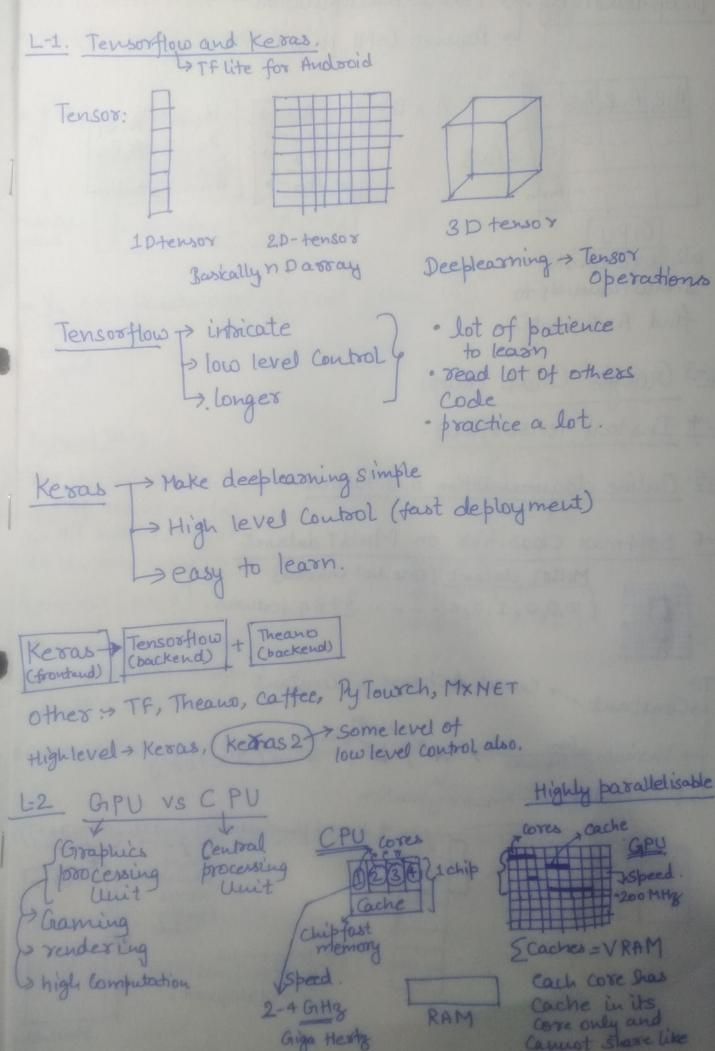
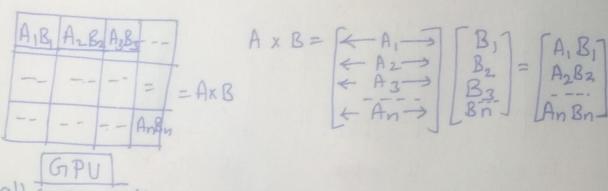
Tensorflow and Ke ras.



Cannot share like

Deep-learning > Matrix-multiplication > Require GIPU power



all core work

Simultanously to

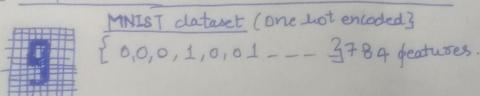
find AXB matrix

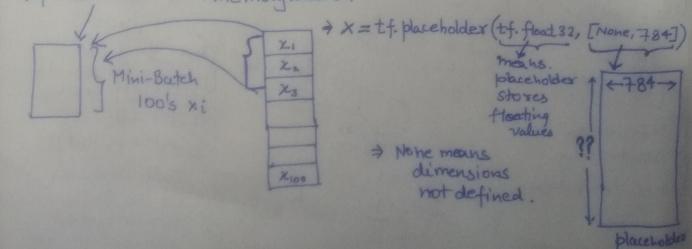
L-3 Google Colab (intro)

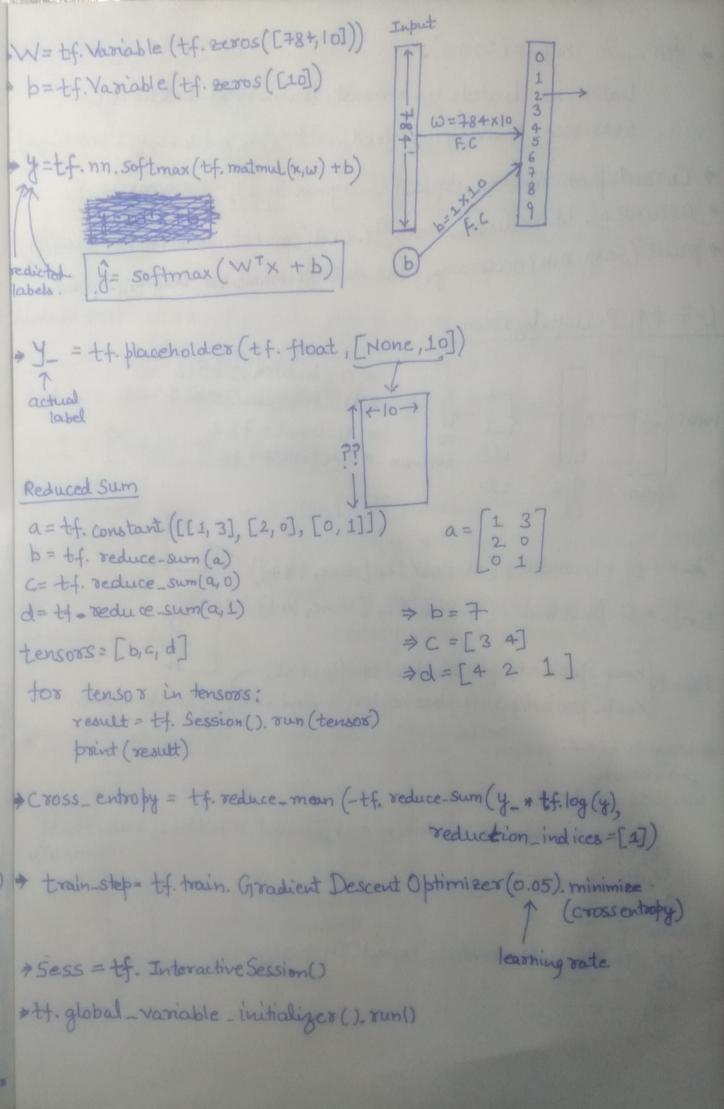
L-4 Install tensorflow.

1-5. Online documentation and tutorial

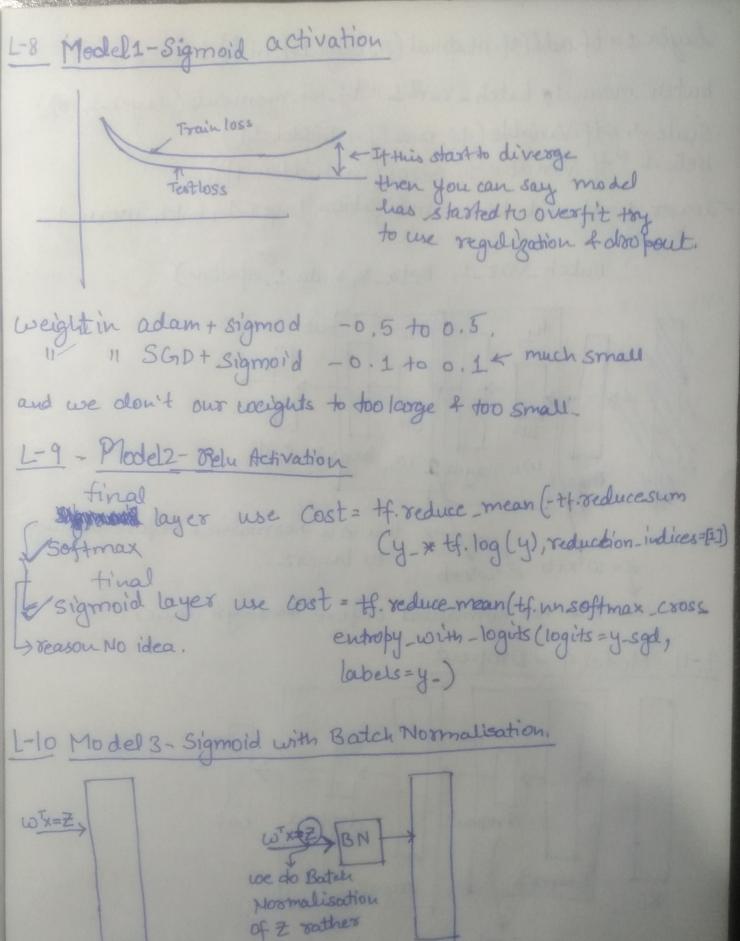
L-6 Softmax Classifier on MNIST dataset







```
> for_ in range (1000):
         batch_xs, batch_ys = mnist. train. next-batch (100)
         Sess. run (train_step, feed-dict= [n: batch_xs, y: batch_ys]
-> Correct prediction = tf. equal (tf. argmax (y,1), tf. argmax (y,1)
* accuracy = tf. reduce_mean (tf. cast (correct_prediction, tf. float[2])
> print (sess. run (accuracy, feed_dict={x:mnist.test.images,y:mnist.
                                                              test. labels ]]
L-7 MLP-Initialization
                                    # n - hidden 1 = 512
                                    * n_hidden_2=128
                                    # n_input= 784
                                    * n-classes= 10
                            Softmax
 X= x= tf. placeholder (tf. float 82, [None, 784])
 Yief = tf. place holder (tf. float 32, [None, 10])
 doopout [keep-prob=tf. placeholder(tf. float 32) Single value
 # weights initialization
   & dictionary
   weights_sgd = L
       h: : +f. Variable (+f. random_normal ([n-input, n-hidden_1], stdder=0.039,
       'out!
  biases = f
     101: tf. Variable (tf. random_normal ([n_hidden_1]),
     out':
```



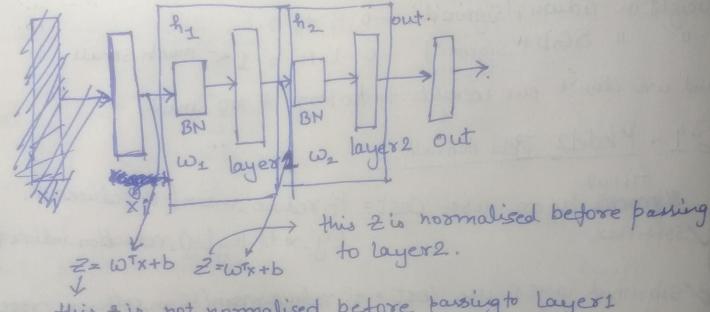
than X.

Sigmoid

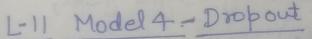
Sigmoid

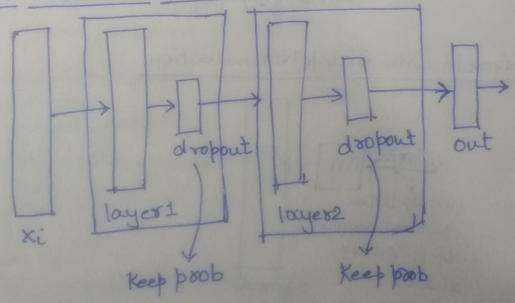
layer-1 = tf. add (+f. modmul (x, weights ['hi']), biases ['bi']) batch_mean_19 batch_var-1 = tf. hn. moments (layer-1, [0]) Scale -1 = tf. Variable (tf. ones ([n_hidden:1])) beta-1 = tf. Variable (tf. zeros ([n-hidden-1])) layer_1 = tf.nh. batch_normalization (layer-1, batch_mean_1,

batch_var_1, beta_1, Scale_1, epsilon)



this & is not normalised before passing to layer 1





dropout good for large and deep NN.

