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In [1]: # first neural network with keras tutorial
       from numpy import loadtxt
       from keras.models import Sequential
       from keras.layers import Dense
In [2]: # name of data set : pima-indians-diabetes.csv
In [3]: # Load the dataset
       dataset = loadtxt("data/pima-indians-diabetes.data.csv", delimiter=',')
       # split into input (X) and output (y) variables
       X = dataset[:,0:8]
       y = dataset[:,8]
In [4]: # define the keras model
       model = Sequential()
       model.add(Dense(12, input_dim=8, activation='relu'))
       model.add(Dense(44, activation='relu'))
       model.add(Dense(26, activation='relu'))
       model.add(Dense(44, activation='relu'))
       model.add(Dense(1, activation='sigmoid'))
In [5]: # compile the keras model
       model.compile(loss='binary_crossentropy', optimizer='adam', metrics=['accuracy'])
In [6]: # fit the keras model on the dataset
       model.fit(X, y, epochs=300, batch_size=15)
       Epoch 1/300
       52/52 [=========== ] - 1s 2ms/step - loss: 0.9632 - accurac
       y: 0.5885
       Epoch 2/300
       52/52 [============ ] - 0s 2ms/step - loss: 0.6415 - accurac
       y: 0.6536
       Epoch 3/300
       52/52 [============= ] - 0s 2ms/step - loss: 0.6500 - accurac
       y: 0.6797
       Epoch 4/300
       y: 0.6719
       Epoch 5/300
       52/52 [============= ] - 0s 2ms/step - loss: 0.6038 - accurac
       y: 0.7083
       Epoch 6/300
       52/52 [================ ] - 0s 2ms/step - loss: 0.5826 - accurac
       y: 0.7174
       Epoch 7/300
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