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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=450, batch_size=15)
      y: 0.7174
      Epoch 25/450
      52/52 [============= ] - 0s 2ms/step - loss: 0.5326 - accurac
      y: 0.7357
      Epoch 26/450
      52/52 [============= ] - 0s 2ms/step - loss: 0.5315 - accurac
      y: 0.7318
      Epoch 27/450
      52/52 [============ ] - 0s 2ms/step - loss: 0.5324 - accurac
      v: 0.7396
      Epoch 28/450
      y: 0.7214
      Epoch 29/450
      52/52 [=============== ] - 0s 2ms/step - loss: 0.5466 - accurac
      y: 0.7109
      Epoch 30/450
```