**DL Sample code 1**

from numpy import loadtxt

from keras.models import Sequential

from keras.layers import Dense

# load the dataset

dataset = loadtxt('pima-indians-diabetes.csv', delimiter=',')

# split into input (X) and output (y) variables

X = dataset[:,0:8]

y = dataset[:,8]

# define the keras model

model = Sequential()

model.add(Dense(12, input\_dim=8, activation='relu'))

model.add(Dense(8, activation='relu'))

model.add(Dense(1, activation='sigmoid'))

# compile the keras model

model.compile(loss='binary\_crossentropy', optimizer='adam', metrics=['accuracy'])

# fit the keras model on the dataset

model.fit(X, y, epochs=150, batch\_size=10)

# evaluate the keras model

\_, accuracy = model.evaluate(X, y)

print('Accuracy: %.2f' % (accuracy\*100))

model.summary()