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In [1]: from keras.models import Sequential
from keras.layers import Dense
import numpy
# fix random seed for reproducibility
numpy.random.seed(7)
# load pima indians dataset
dataset = numpy.loadtxt(r"pima-indians-diabetes.csv", delimiter=",")
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In [2]: X = dataset[:,0:8]
Y = dataset[:,8]
# create 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 model
model.compile(loss='binary_crossentropy', optimizer='adam', metrics=['accuracy'])
# Fit the model
model.fit(X, Y, epochs=150, batch_size=10)
# evaluate the model
scores = model.evaluate(X, Y)
```

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Epoch 1/150
77/77 [=====] - 0s 549us/step - loss: 5.0141
- accuracy: 0.6016
Epoch 2/150
77/77 [=====] - 0s 526us/step - loss: 2.5551
- accuracy: 0.6589
Epoch 3/150
77/77 [=====] - 0s 513us/step - loss: 1.9155
- accuracy: 0.6380
Epoch 4/150
77/77 [=====] - 0s 500us/step - loss: 1.5987
- accuracy: 0.6484
Epoch 5/150
77/77 [=====] - 0s 513us/step - loss: 1.3909
- accuracy: 0.6289
Epoch 6/150
77/77 [=====] - 0s 539us/step - loss: 1.2902
- accuracy: 0.6471
Epoch 7/150
77/77 [=====] - 0s 500us/step - loss: 1.1848
- accuracy: 0.6714
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In [3]: print("\ns: %.2f%%" % (model.metrics_names[1], scores[1]*100))
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accuracy: 73.57%

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In [ ]: from ann_visualizer.visualize import ann_viz;  
ann_viz(model, title="My graph")
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In [ ]:
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