```
from google.colab import files
     uploaded = files.upload()
     # first neural network with keras tutorial
     import keras
     from numpy import loadtxt
     from keras.models import Sequential
     from keras.layers import Dense
     import pandas as pd
     df = pd.read csv("/content/pima-indians-diabetes.csv")
     # split into input (X) and output (y) variables
     X = df.iloc[:,0:8]
     y = df.iloc[:,8]
     # define the keras model
     model = Sequential()
     #input_layer = Dense(12, input_dim = 8, activation = 'relu')
PRE#modeladd(input layer)
       ode add(Dense(12, input_dim=8, activation='relu'))
     model.add(Dense(8, activation='relu'))
```

model add/Densel1 activation='sigmoid'))

# compile the keras model and specify the training parameters of the architecture model.compile(loss='binary\_crossentropy', optimizer='adam', metrics=['accuracy'])

# fit the keras model on the dataset model.fit(X, y, epochs=150, batch\_size=16)

```
#Output
Epoch 1/150
Epoch 2/150
Epoch 3/150
Epoch 4/150
Epoch 5/150
Epoch 6/150
Epoch 7/150
Epoch 8/150
Epoch 9/150
Epoch 10/150
```

```
Epoch 11/150
Epoch 12/150
Epoch 13/150
Epoch 14/150
Epoch 15/150
Epoch 16/150
Epoch 17/150
Epoch 18/150
Epoch 19/150
Epoch 20/150
```



```
# evaluate the keras model
_, accuracy = model.evaluate(X, y)
print('Accuracy: %.2f' % (accuracy*100))
```

## #Output

Accuracy: 76.27



## model.get\_config()

```
{'layers': [{'class_name': 'InputLayer',
   'config': {'batch_input_shape': (None, 8),
    'dtype': 'float32',
    'name': 'dense input',
    'ragged': False,
    'sparse': False}},
  {'class_name': 'Dense',
   'config': {'activation': 'relu',
    'activity_regularizer': None,
    'batch input shape': (None, 8),
    'bias constraint': None,
    'bias_initializer': {'class_name': 'Zeros', 'config': {}},
    'bias regularizer': None,
    'dtype': 'float32',
    'kernel constraint': None,
    'kernel_initializer': {'class_name': 'GlorotUniform',
     'config': {'seed': None}},
    'kernel regularizer': None,
    'nama'. 'danca'
```