**Black box NN**

import numpy as np

import pandas as pd

from sklearn.model\_selection import train\_test\_split

from tensorflow.keras.models import Sequential

from tensorflow.keras.layers import Dense

data = pd.read\_csv('/content/CollegePlacePreprocessed.csv')

X = data

y = data['PlacedOrNot']

del X['PlacedOrNot']

X\_train , X\_test , Y\_train , Y\_test = train\_test\_split(X , y , test\_size = 0.2)

model = Sequential()

model.add(Dense(15, input\_shape=(13,), activation='relu'))

model.add(Dense(6, activation='relu'))

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

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

model.fit(X\_train, Y\_train, epochs= 3000, batch\_size=10)

X\_train.shape

X\_test.shape

\_, accuracy = model.evaluate(X\_test, Y\_test)

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

model.save("BlackBox2.h5")

model.summary()