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# -*- coding: utf-8 -*-
"""Modelcode ANN.ipynb
Automatically generated by Colaboratory.
Original file is located at
https://colab.research.google.com/drive/1qrWwbUlGyvYIkum4401AFuQJC0J W
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# importing the Keras Libraries and package
import keras
from keras.models import Sequential # For building the Neural
Network layer by layer
from keras.layers import Dense # used to add fully connected
layer in ANN#Simple Neural Network Model Code using Tensorflow
#Sequential model with one layer, i.e, 1 neuron, input shape =2,
kernel initializer=weights, bias initializer = bias
model = keras.Sequential([
    keras.layers.Dense(1, input shape=(2,), activation='sigmoid',
kernel initializer='ones', bias initializer='zeros')])
#Multiple Layers
classifier = Sequential()
# adding the input layer and first hidden layer
classifier.add(Dense(output dim, init = 'uniform', activation =
'relu', input dim ))
# adding the second hidden layer
classifier.add(Dense(output dim, init = 'uniform', activation =
'relu'))
#Adding the output layer
classifier.add(Dense(output dim = 1, init = 'uniform', activation =
'sigmoid'))
#"compile" is a method of Tensorflow. "adam' is the optimizer that can
perform the gradient descent.
# loss function as binary crossentropy
# The optimizer updates the weights during training and reduces the
loss.
model.compile(optimizer='adam',
              loss='binary crossentropy',
              metrics=['accuracy'])
#The neural network has to train on a certain number of epochs to
improve the accuracy over time.
#Thus, when you run this code, you can see the accuracy in each epoch.
model.fit(X train scaled, y train, epochs=5000)
#evaluating the model
model.evaluate(X test scaled,y_test)
#prediction of values
model.predict(X test scaled)
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#To get the value of weights and bias from the model
coef, intercept = model.get_weights()
coef, intercept