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#Instalamos la libreria tflearn
!pip install tflearn
#Importamos todo lo que necesitamos de tflearn
import tflearn
from tflearn.layers.core import input data, dropout, fully connected
from tflearn.layers.conv import conv 2d, max pool 2d
from tflearn.layers.normalization import local response normalization
from tflearn.layers.estimator import regression
#Importamos el dataset de MNIST
import tflearn.datasets.mnist as mnist
#Cargamos el dataset en las variables de entrenamiento y prueba
X, Y, testX, testY = mnist.load data(one hot=True)
X = X.reshape([-1, 28, 28, 1])
testX = testX.reshape([-1, 28, 28, 1])
#Definimos la estructura de la red neuronal
net = input data(shape=[None, 28, 28, 1])
net = conv_2d(net, 32, 3, activation='relu', regularizer="L2")
net = max pool 2d(net, 2)
net = local response normalization(net)
net = conv_2d(net, 64, 3, activation='relu', regularizer="L2")
net = max pool 2d(net, 2)
net = local response normalization(net)
net = conv_2d(net, 128, 3, activation='relu', regularizer="L2")
net = max pool 2d(net, 2)
net = fully connected(net, 625, activation='relu')
net = dropout(net, 0.8)
net = fully connected(net, 10, activation='softmax')
net = regression(net, optimizer='adam', learning rate=0.001, loss='categorical crossentropy')
model = tflearn.DNN(net)
#Entrenamos el modelo y lo validamos
model.fit(X, Y, validation set=(testX, testY), snapshot step=1000, show metric=True, n epoch=1
```