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# Importacao de Bibliotecas
import keras
from keras.datasets import cifar100
from keras.utils import to_categorical
from keras.models import Sequential
from keras.layers import Conv2D, MaxPooling2D, Flatten, Dropout, Dense
from keras.optimizers import RMSprop
# Carregar o conjunto de dados Cifar
(x_train, g_train), (x_test, g_test) = cifar100.load_data()
    Downloading data from <a href="https://www.cs.toronto.edu/~kriz/cifar-100-python.tar.gz">https://www.cs.toronto.edu/~kriz/cifar-100-python.tar.gz</a>
    # Normalizacao do Conjunto de Dados
x train = x train / 255.0
x_{test} = x_{test} / 255.0
# Converter as classes em Categorias
y train = to categorical(g train, num classes=100)
# Criar o modelo sequencial
model = Sequential()
model.add(Conv2D(filters=32, kernel_size=(3, 3), padding='same', activation='relu', input_shape=(32, 32, 3)))
model.add(MaxPooling2D(pool size=(2, 2)))
model.add(Conv2D(filters=64, kernel size=(3, 3), padding='same', activation='relu'))
model.add(MaxPooling2D(pool size=(2, 2)))
model.add(Conv2D(filters=128, kernel size=(3, 3), padding='same', activation='relu'))
model.add(MaxPooling2D(pool size=(2, 2)))
model.add(Conv2D(filters=256, kernel_size=(3, 3), padding='same', activation='relu'))
model.add(MaxPooling2D(pool_size=(2, 2)))
model.add(Flatten())
model.add(Dropout(rate=0.5))
model.add(Dense(units=512, activation='relu'))
model.add(Dense(units=100, activation='softmax'))
# Compilar o modelo
model.compile(loss='categorical crossentropy', optimizer=RMSprop(), metrics=['accuracy'])
# Treinar o modelo
history = model.fit(x train, y train, epochs=5, batch size=128, validation split=0.2)
    Epoch 1/5
    Epoch 2/5
```

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