<https://github.com/mwaskom/seaborn-data>

from tensorflow.keras.datasets import mnist

from tensorflow.keras.models import Sequential

from tensorflow.keras.layers import Conv2D

from tensorflow.keras.layers import MaxPool2D

from tensorflow.keras.layers import Flatten

from tensorflow.keras.layers import Dropout

from tensorflow.keras.layers import Dense

import matplotlib.pyplot as plt

from keras.datasets import cifar10

(train\_img,test\_lab),(test\_img,test\_lab)= cifar10.load\_data()

class\_names=['airplane','dog','cat','deer','ship']

plt.figure(figsize=(10,10))

for i in range(5):

plt.xticks([])

plt.yticks([])

plt.subplot(3,3,i+1)

plt.imshow(train\_img[i])

plt.xlabel(class\_names[train\_lab[i][0]])

plt.show()

#defining model

model=Sequential()

#adding convolution layer

model.add(Conv2D(32,(3,3),activation='relu',input\_shape=(28,28,1)))

#adding pooling layer

model.add(MaxPool2D(2,2))

#adding fully connected layer

model.add(Flatten())

model.add(Dense(100,activation='relu'))

#adding output layer

model.add(Dense(10,activation='softmax'))

#compiling the model

model.compile(loss='sparse\_categorical\_crossentropy',optimizer='adam',metrics=['accuracy'

])

#fitting the model

model.fit(X\_train,y\_train,epochs=10)