Defining Custom Image Dataset Loader and Usage
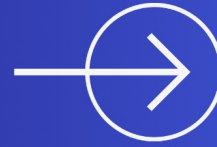
www.krishnaik.in

(1)

$$X_1 \; X_2 \; X_3 \; X_4 \; X_5 \; X_6 \qquad Y_1$$
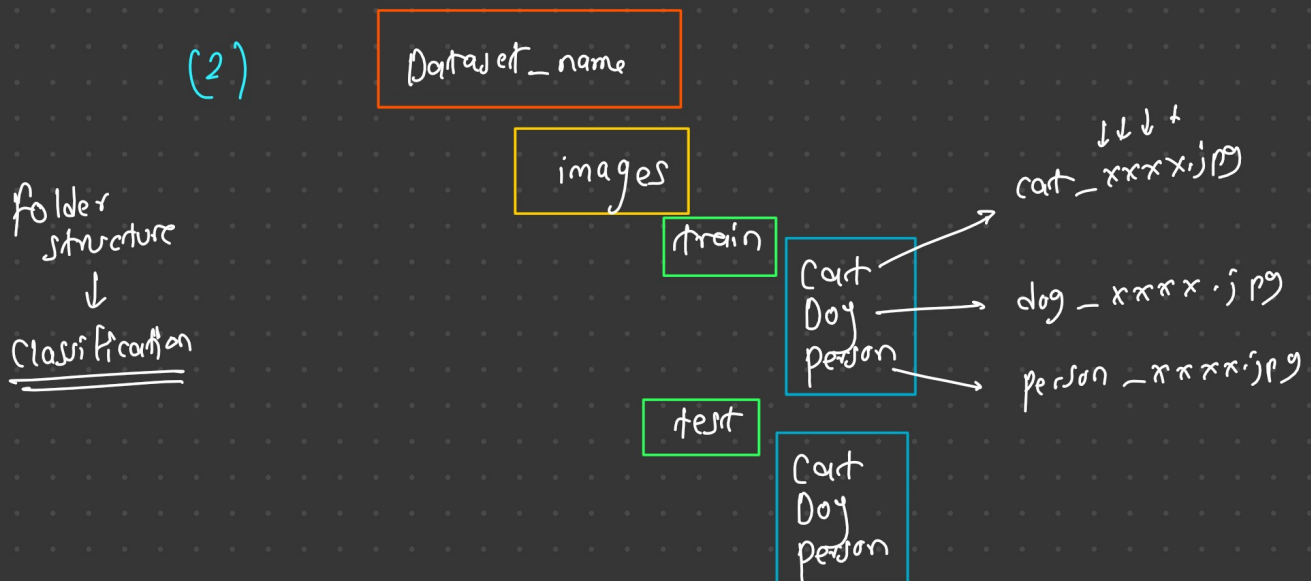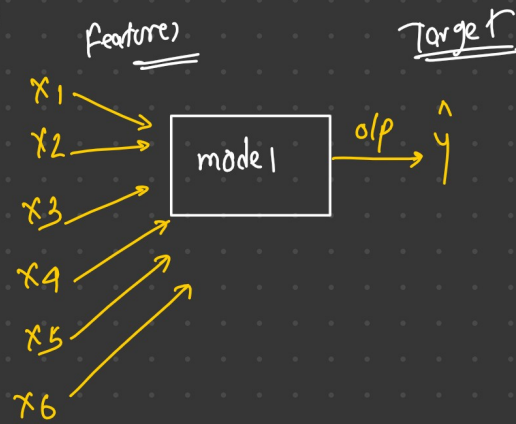
Xtrain
Xtest

Y_train ⟶ training
Y_test ⟶ test

(2)

Dataset_name

images

folder
structure
↓
Classification

train

Cart
Doy
person

cart_xxxx.jpg
dog_xxxx.jpg
person_xxxx.jpg

test

Cart
Doy
person

(1) Numerical

Features   Target

x_1
x_2
x_3 [model]   o/p $\rightarrow \hat{y}$
x_4
x_5
x_6
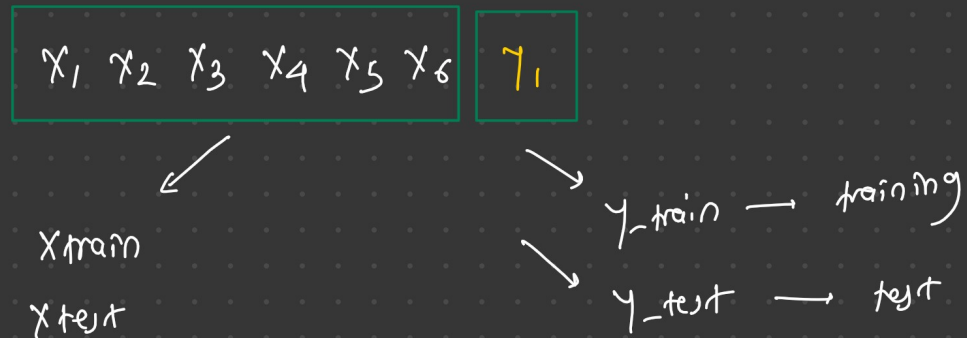
(2) Classification

Features — Images

Target —

Image → np.array ———→ [model] →

$0 \rightarrow$ Dog

$1 \rightarrow$ cart
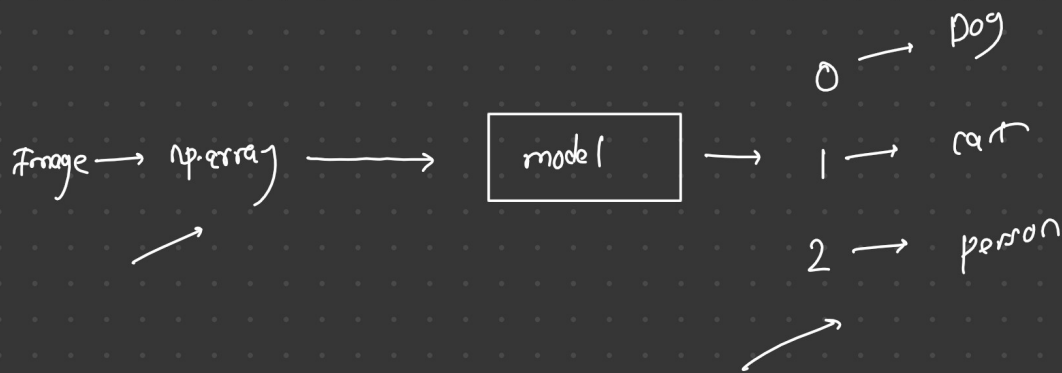
$2 \rightarrow$ person

Image	Class name		
Image.jpg	0/1/2	Dog/cart/person	