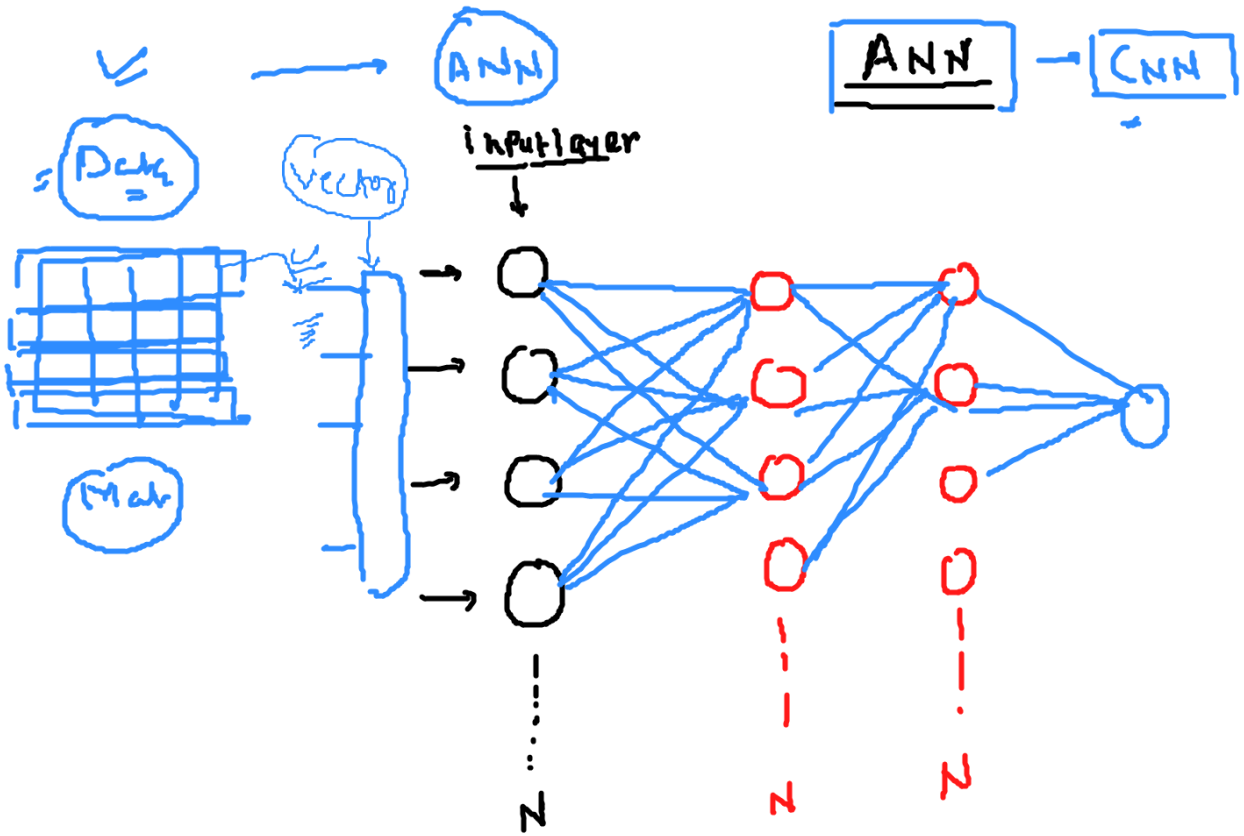
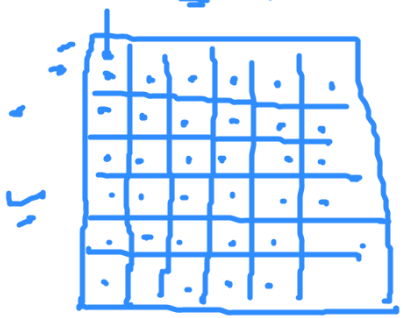

ANN
ANN
CNN
Input layer
Vector
Matr
N
N

CNN :-

Images

Video → FPS

Matrix (image)



Pixel → Int → Value

( 0 - 255 )

↑ black ↑ white

types of image

Grey (black & white)

Color → R G B

LR, Log Reg, Svm

↑

SVML

Data - train → testing

Data.

↓

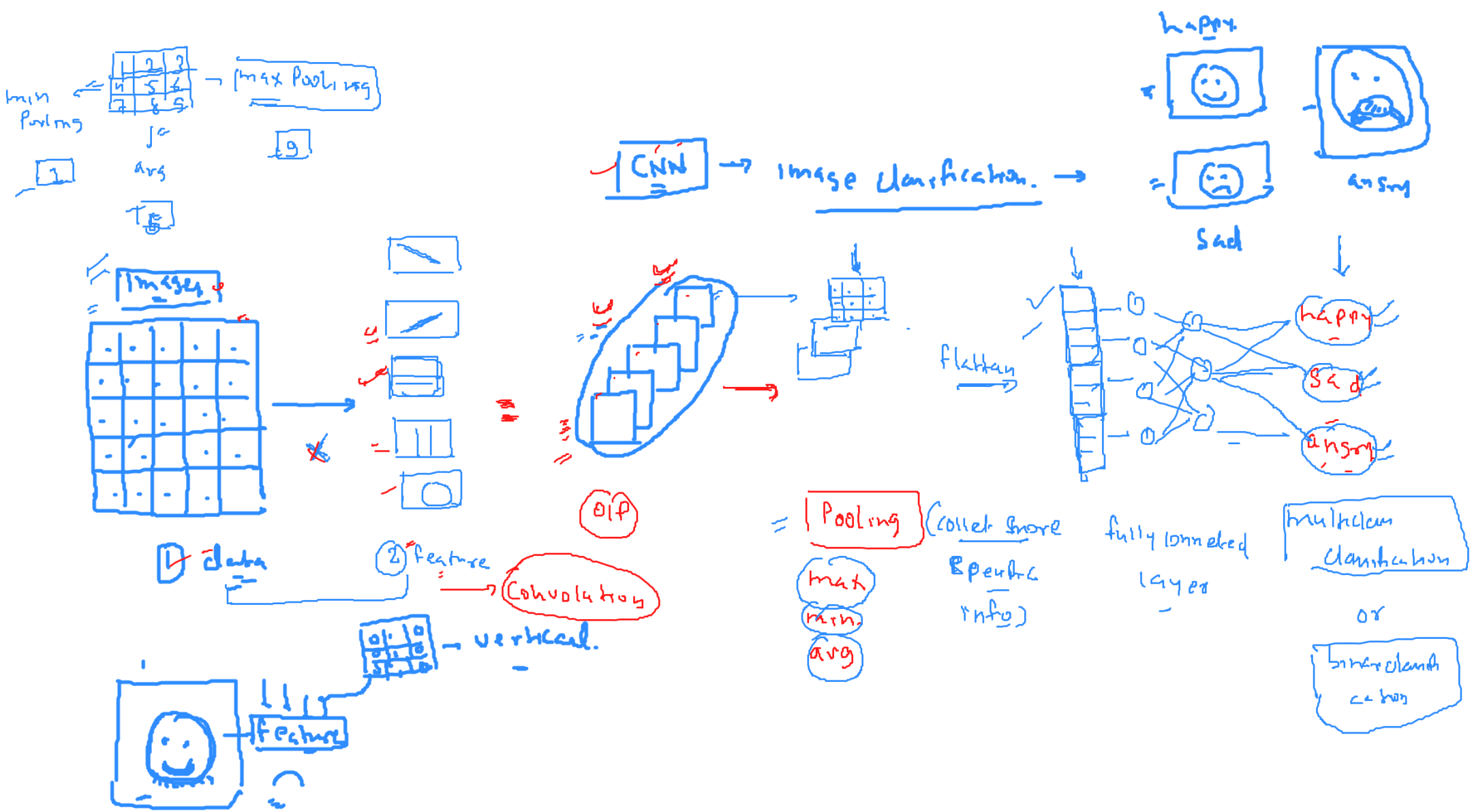
Imges.

↑

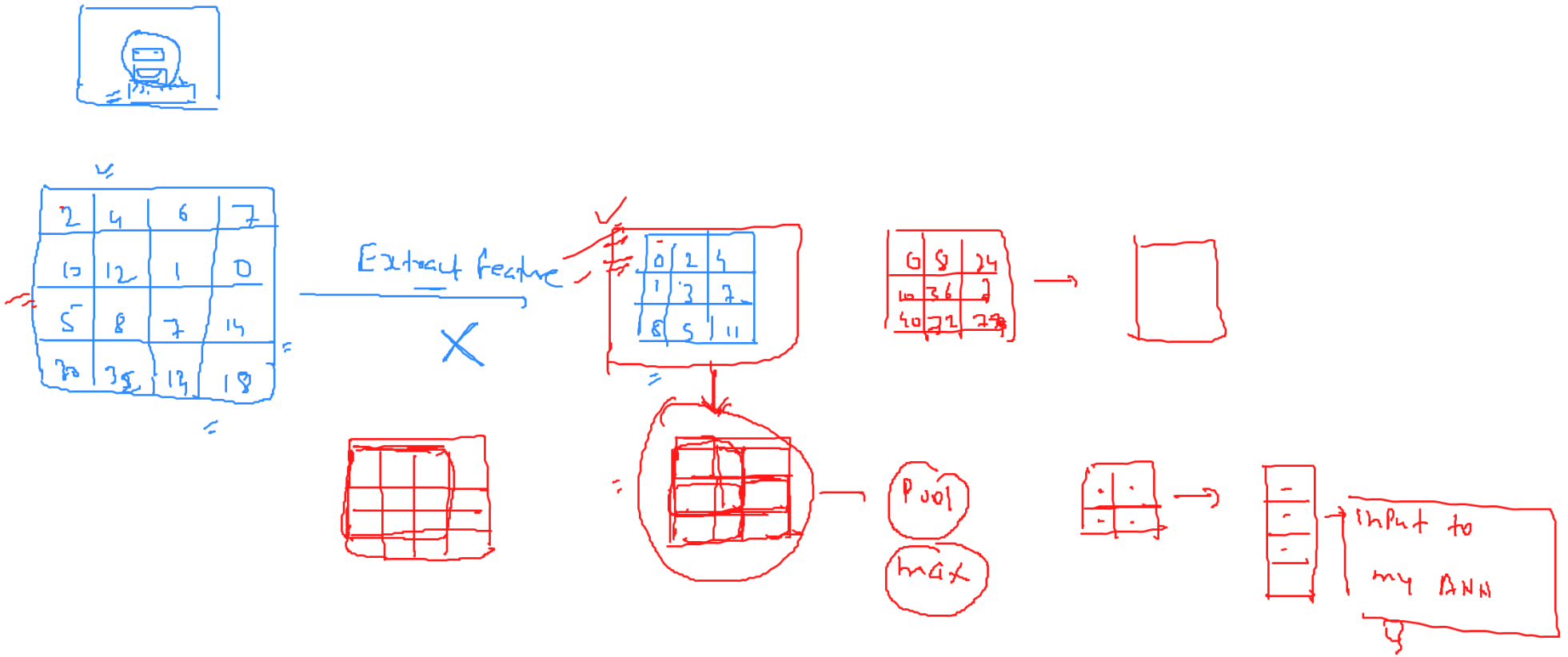
train → CNN

↑

testing


min Pooling
Max Pooling
avg
CNN
image classification.
happy
sad
angry
Image
1 data
2 feature
Convolution
vertical.
Feature
o/p
Pooling
(collect more specific info)
max
min
avg
flatten
fully connected layer
happy
Sad
angry
multiclass classification
or
binary classification

1. image.
2. feature multiplication → convolution.
3. Pooling.
4. flattan.
5. fully connted network.
6. o/p


Extract feature
X
Pool
max
Input to
my ANN

Dimred → PCA

F.S & F.E

Subset of feat in ML

Deep learning

(COCO, MNIST)

Image

F.E.

Data

Image

Feature

F E

more spatial info → Pooling

Flatten array or vectors

fully connected layer

O/P

training

Convolution

CNN

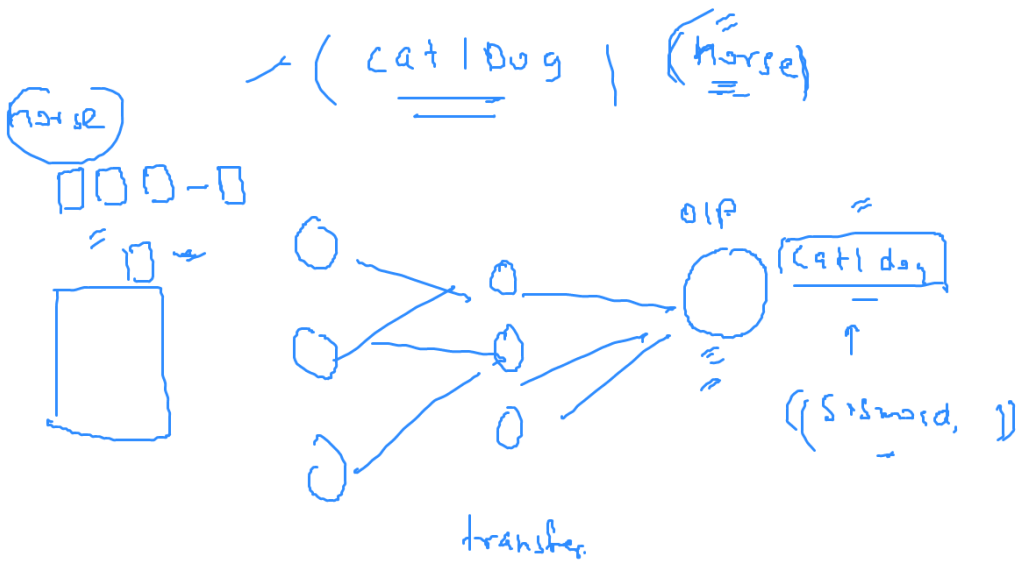
Supervised algo

Our Network

training → testing

transfer → other data

different data


cat | Dog
Horse
Horse
o/p
cat | dog
transfer