

Agenda :

- Ninjacast Business Case

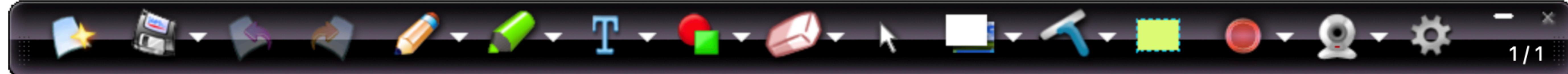
→ Intro to CNN

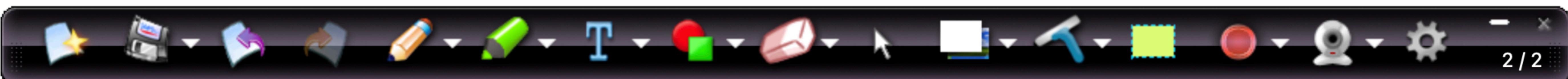
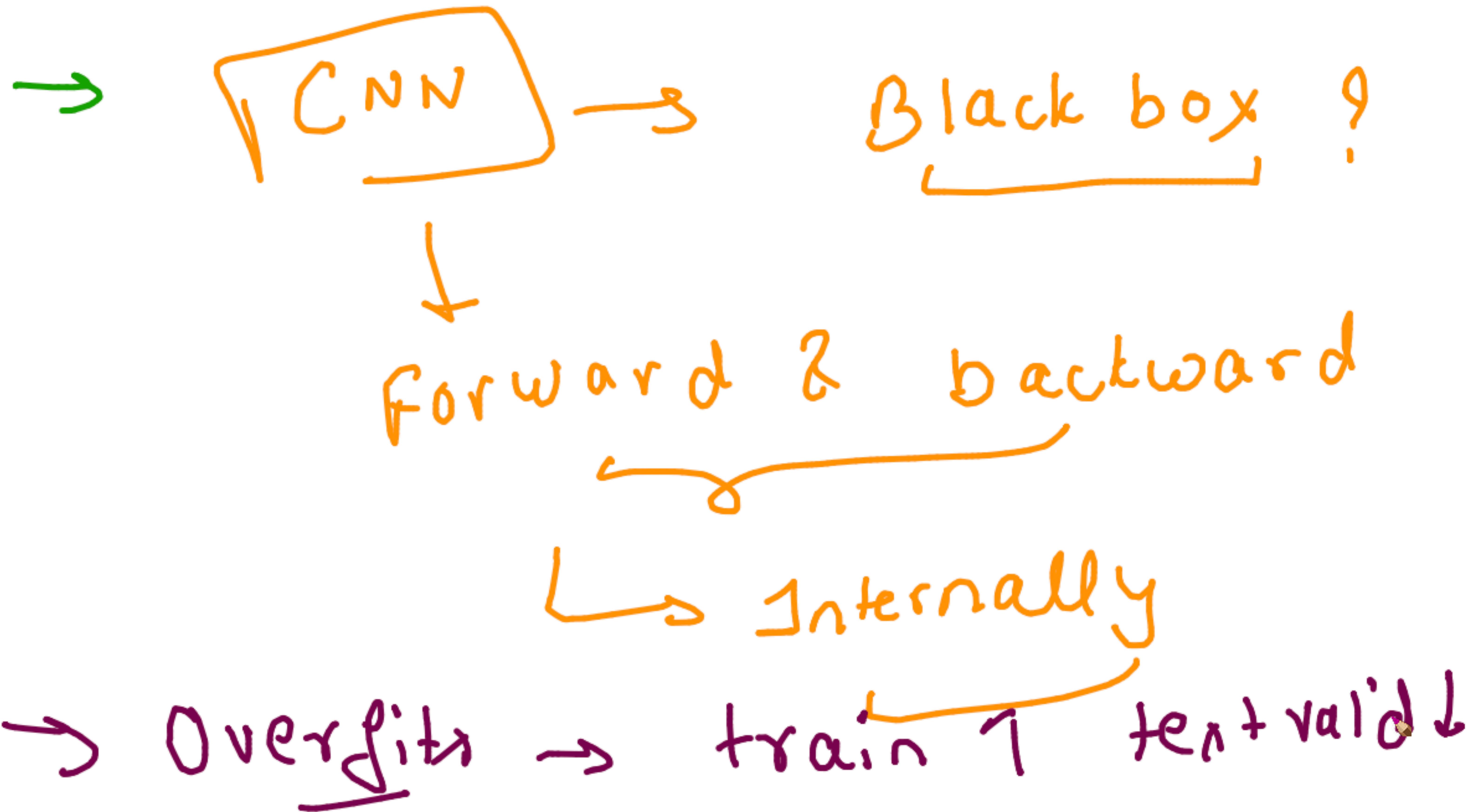


⇒ CNN → filter(conv) + ReLU + Maxpool

pooling

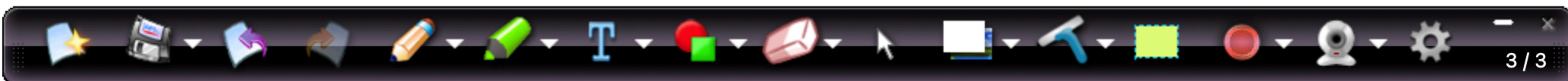
Intro

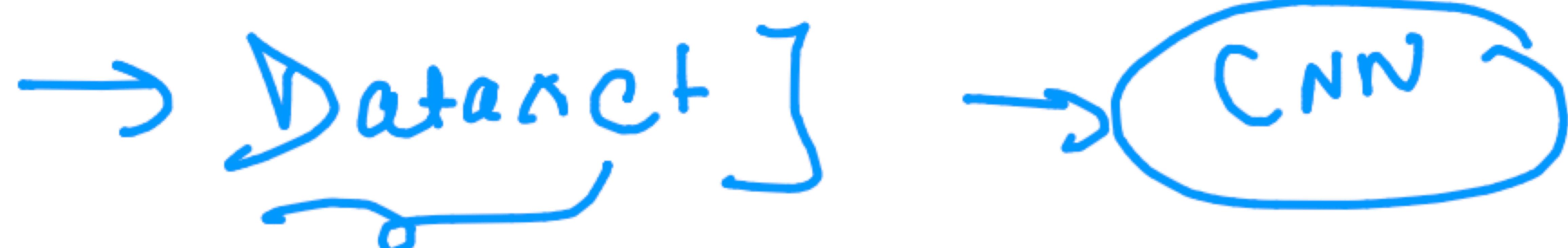




→ Deal with overfitting

- ↳ L_1 / L_2 Regularizer
- ↳ Reduce Architecture
- Callbacks
- Dropout & BN
- Data Augmentation



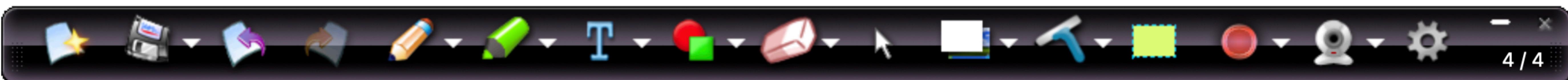


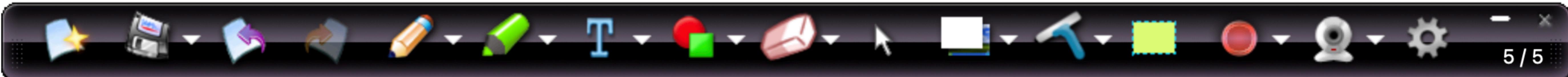
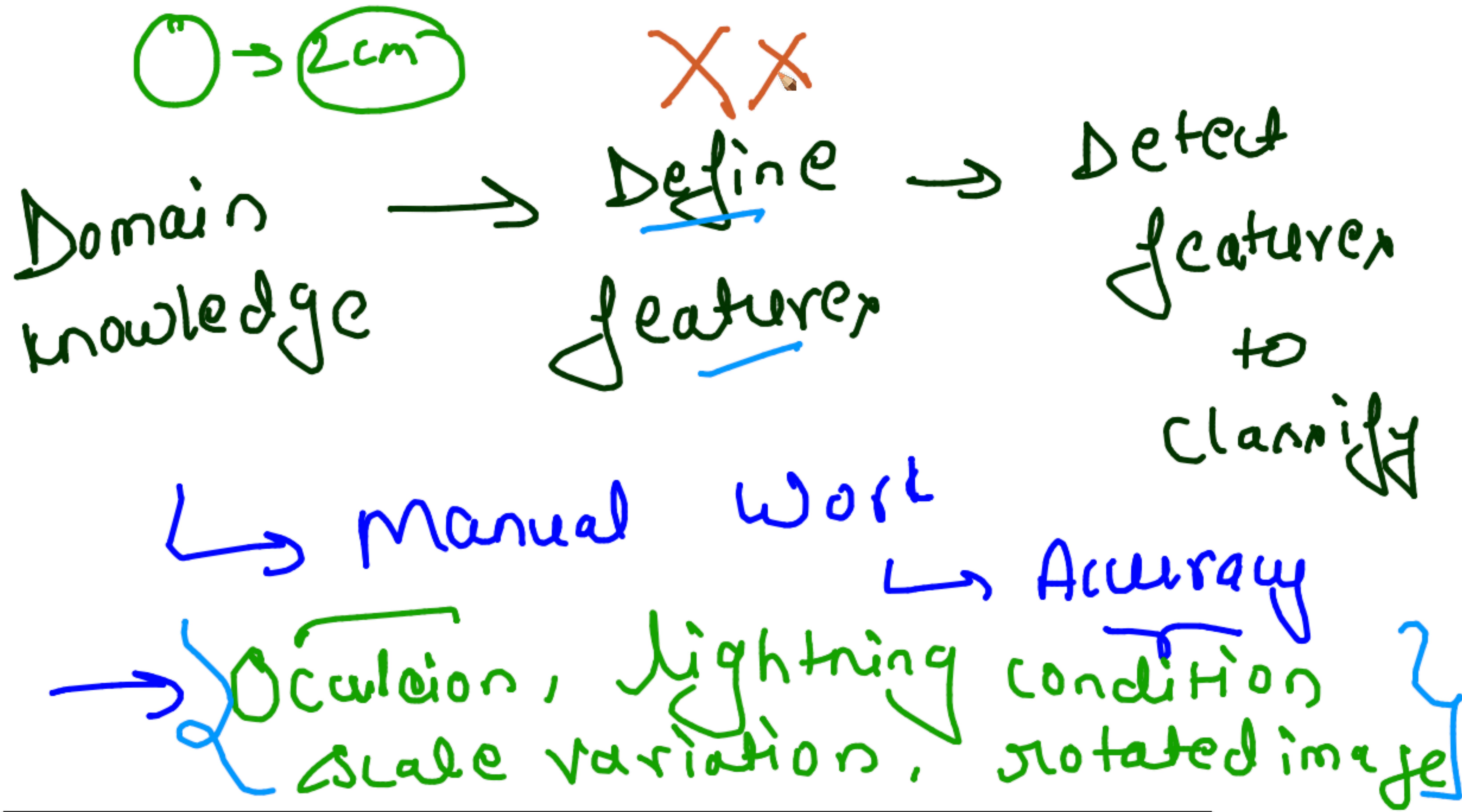
P ✓
T ✓
O ✓
Noise ✓

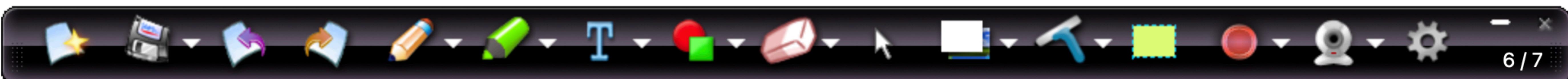
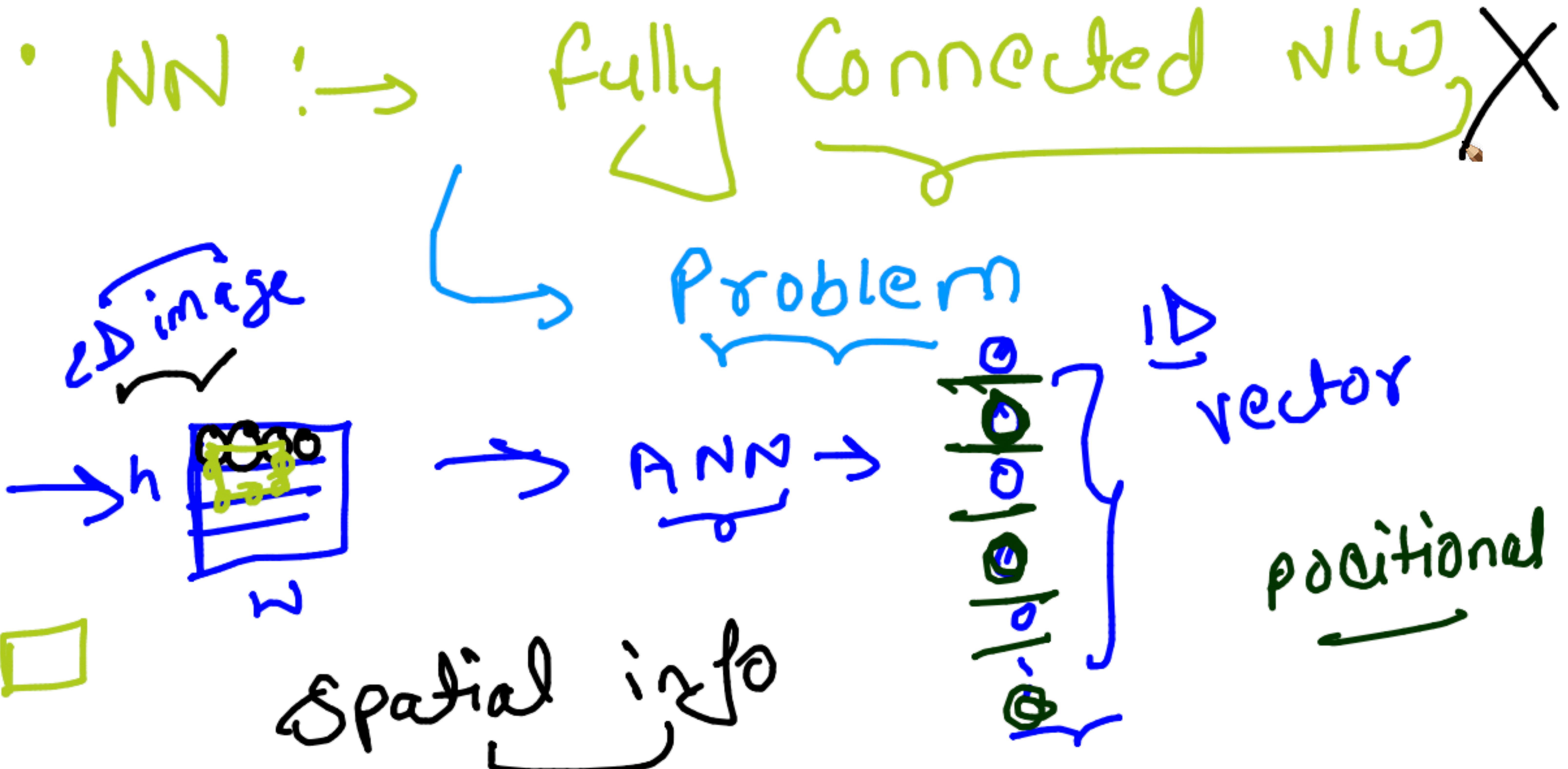
↓ ??

- Color
- shape
- size
- feature

domain
knowledge







2] Too many Parameters

~~many~~

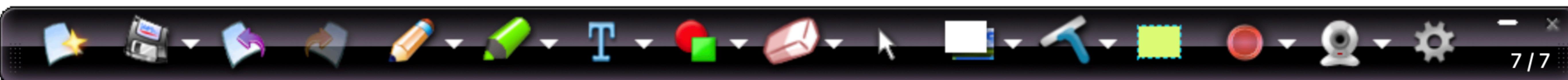
first layer of ANN = 100×100 weights

100
100

100

Parameters
~~many~~
weights

→ hard to train & optimize



3. CNN :

output

Derive
E flatter

