Convined - Multiple convilagers followed by a pool layer

- FC layers in the last few layers

- Platten volume before FC layers

LeNet-5: deeper → # of channels ↑, width & height \
padding isnit used

Res Net: Pres Net block can easily learn to approximate the identity fth

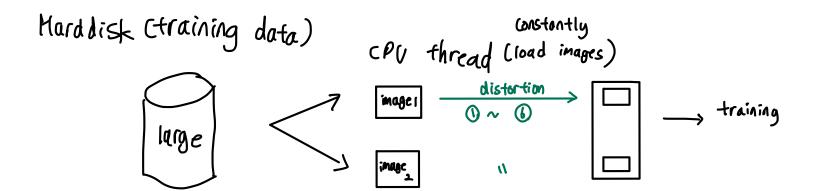
—) not affect the performance of the network at all in wast case scenario

· data any mentation -> computer vision system of performance THZ

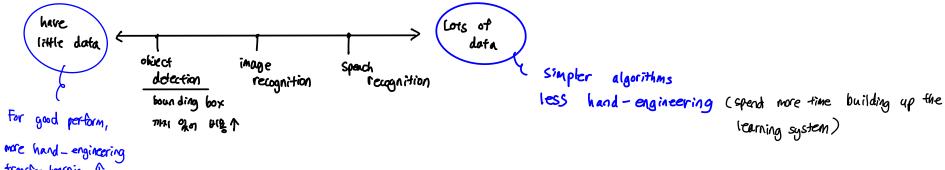
Linput: pixels (4755 772 714) हमामः datah देशका छह

- · transfer learning, pre-trained model 501 38
- > common methods
- @ mirroring
 - · ागरा द्वासुक ने preserve स्ट्रमा (यह प्रयू)
- @ random cropping
 - . गाणम हेहह नम्बह
- · random crops should be reasonably large subsets of actual image

- 6 Color shifting
 - · different color channels on distortion 38 Ex) +20, -20, +20
 - -7 more robust to changes in the colors of the image



one 1 throads that load data/distortion and pass it to another thread that implements training



transfer bearning s

hand-engineering: hand design features, hand design network architectures - knowledge ex ozz-

Tips for competitions!

() Ensembling (average several network outputs) -> 1~2% better -> several networks

@ multi-crop at test time
: run classifier on multiple versions of test-images and average results -> 1 network

But don't recommed applying them on production systems