Photo OCR → Optical Character Recognition

Photo OCR Pipeline →

Image → Text Detection → Character Segmentation → Character Recognition

Pedestrain detection:

x = pixels in 82 X 36 image patches

We train model by supervised learning using Neural network where, $y=1$, positive
$y=0$, negative

Predict: Sliding window

Text detection is very much similiar to pede. det.

1D sliding window is used for character segmentation

Getting lot of data by synthesizing:

In real world data, most of them are distorted, amplified or slightly changed.

So the keep track on that, we need to train our model with that kind of data also.

- Make sure that we have a low bias classifier before expanding.
  - keep increasing the number of features/ number of hidden units in neural network untill we have a low bias classifier
- Artifical data synthesis
- collect/label it by own
- "Crocod Source"

Celling analysis gives us intuition where to spend more time of a pipeline.