

Viterbi Internship - Random Ideas

Arka Sadhu

May 22, 2017

Contents

1	Face Detection	2
1.1	NN for finding what the hidden layers of the Net are doing	2
2	NN	2
2.1	Filtering automatically with CNN	2
2.2	Training NN	2

1 Face Detection

1.1 NN for finding what the hidden layers of the Net are doing

- Can try to analyze the hidden layers, to find which nodes are the ones which are capturing illumination invariant features and stuff like that.

2 NN

2.1 Filtering automatically with CNN

- Can try to remove the data bias from the database, by physically removing them using another NN
- Or perhaps automatically learning that these are not exactly relevant.

2.2 Training NN

- To do a task, we can think of how a normal human being would approach that task.
- Can ask the machine learner to do that on its own.
- This would implicitly lead to learning objects on its own.