

QianLi-Photo aesthetics evaluation system: a application of CNN and SVM

We're making machine learn to do aesthetics evaluation
for people's photos !

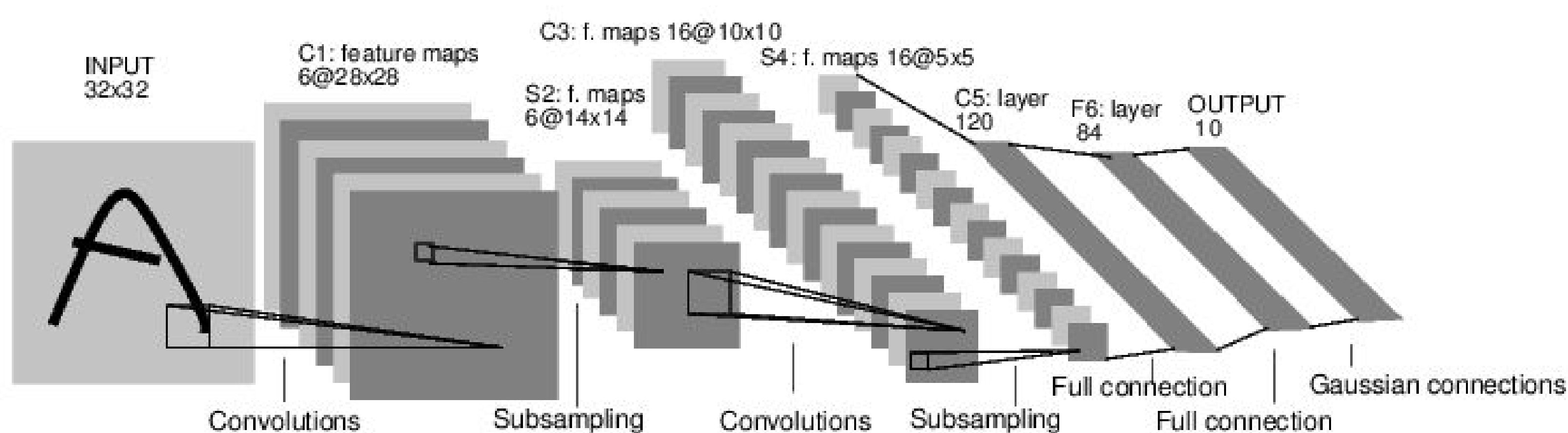
Ranking a photo into one of 1~10 levels is challenging even for human, here's some photos which sorted by the order the machine predicts, the ranks are not exactly match the labels, but the relative rank makes sense!



Method1: CNN

Training set: 10,000 images

Implement neural network shown as below in *Torch*



Iteration	Runtime(s)	Correctness Ratio	# of images labeled correctly
100	577.51	52.9%	1588
1000	5943	67.14%	2014

Method2: Multi-class SVM

Training set: 10,000 images

Use raw pixels as input features, *LIBSVM* as solver

Pixel scale	Correctness Ratio	# of images labeled correctly
None	50.13%	1504
[-1,1]	50.03%	1501