4. **scikit-learn** (**http://scikit-learn.org/**) : As a computer vision programmer / engineer, you will inevitably need a good machine learning library and scikit-learn serves that purpose well. It uses numpy/scipy idioms and provides algorithms for preprocessing data, classification, regression, clustering, dimensionality reduction, and model selection.

Web APIs

1. **Alchemy API (http://www.alchemyapi.com/products/alchemyvision) :** A deep learning based API for auto tagging images based on the content of the image. If you upload an image of a cat, it will return "cat" as a tag. Deep learning based large scale recognition is a hot topic of research these days. If you have been following **ImageNet Large Scale Visual Recognition Challenge (ILSVRC)**, you probably know that even though IBM is first to market with its API, several other teams from Google, Facebook, Microsoft, Baidu, and several universities are doing much better in the competition. Hope they come up with an API too!
2. **CloudSight** (**http://cloudsightapi.com/**) : What is better than computer vision ? Well, human vision! CloudSight API does visual recognition using a combination of computer vision and human crowd sourcing. You can use their app called CamFind to see how well it works.
3. **Face++** (**http://www.faceplusplus.com/**) : An API for face detection, facial landmark detection, face search, and face recognition.
4. **TinEye** (**https://services.tineye.com/TinEyeAPI**) : Search the entire web for an image using TinEye's reverse image search.
5. **OCRSDK** (**http://ocrsdk.com**) : Upload an image containing text and get back the results as text. They provide sample code and it works well for standard scanned text.
6. **CloudCV** (**http://cloudcv.org**) : CloudCV describes itself as a Large-Scale Distributed Computer Vision as a Cloud Service. It is not a commercial product, but is being developed by Machine Learning and Perception Lab at Virginia Tech. They do image stitching and object detection / classification in the cloud.

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