PyImageSearch Tutorial List

Machine Learning in Python

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1. Examine your problem
2. Prepare your data (raw data, feature extraction, feature engineering, etc.)
3. Spot-check a set of algorithms
4. Examine your results
5. Double-down on the algorithms that worked best
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Facial Detection / Recognition

i. Face detection with OpenCV and deep learning

ii. Raspberry Pi Face Recognition

iii. OpenCV Face Recognition 1

iv. OpenCV Face Recognition 2

v. Facial landmark detector with dlib

vi. How to (quickly) build a deep learning image dataset

Keras & Deep Learning

i. How to get started with Keras, Deep Learning, and Python

ii. How to use Keras fit and fit_generator

iii. Keras – Save and Load Your Deep Learning Models

iv. Keras Conv2D and Convolutional Layers

v. Auto-Keras and AutoML: A Getting Started Guide

Other Applications

i. A gentle guide to deep learning object detection

ii. Object detection with deep learning and OpenCV

iii. OpenCV Saliency Detection

iv. Simple object tracking with OpenCV

v. More Advanced OpenCV Object Tracking

vi. Tracking multiple objects with OpenCV

vii. Directional OpenCV People Counter

viii. OpenCV Text Detection - EAST detector

ix. Neural Style Transfer with OpenCV

x. Semantic segmentation with OpenCV and deep learning

xi.

xii. OpenCV OCR and text recognition with Tesseract

xiii. Multi-object tracking with dlib

xiv. YOLO object detection with OpenCV

xv. Mask R-CNN with OpenCV

xvi. Instance segmentation with OpenCV

xvii. Image Stitching with OpenCV and Python

How to install OpenCV 3 on Ubuntu

How to install OpenCV 4 on Ubuntu

pip install opencv