

Documentation(Sudhanshu Jaiswal)- Image Analysis Pclub Self Project

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1 Introduction

It is a self project under pclub. The main objective of the project is to analyse a image and extract features of the image. We will extract features like text in the image at any location and face detection which will locate faces in the image.

2 Implementation Details

Initially we will be working on text retrival from the image. This will involve text detection in image at different location, then character segementation and finally character recognition using some machine learning algorithm.

3 Week1:20-5-17

1. Learned python by LPTHW and Codecademy. All sample files that were used for learning python are added to the github repositories.
2. Learned git from Codecademy.
3. Learned important python libraries that will be used in project -Numpy, Scipy, Pickle and Matplotlib from <http://cs231n.github.io/python-numpy-tutorial/> and other resources.
4. Started with Andrew Ng course and completed first week. Done with linear regression. from <https://www.coursera.org/learn/machine-learning/home/welcome>

4 Week2:

1. Continued Machine Learning from Coursera and completed till week 4.
2. Done with concept of Logistic Regression and its implementations.

5 Week3:

1. Studied TensorFlow library for implementation of the above mentioned machine learning techniques from <https://www.tensorflow.org/tutorials/>
2. Done with week 6 Neural Networks.