CSE473/573 Summer 2017 - Programming Assignment 3

Due Date: 23rd July 2017

July 12, 2018

1 Image Based Search Engine

In this assignment, you will explore an existing implementation of Computer Vision software using Python and OpenCV. The code is available for download from: `https://goo.gl/NaDjFW`

The code is also available on Piazza, but it is fair to download from the original contributor. The images included are from Lord of the Rings movie

Your Tasks

- Collect your own image dataset of 5 landmarks (Example: Student Union, Lake Lasalle, Capen library, Alumni Arena etc) at UB Campuses using your smartphone. You need to capture 6 Images of each landmark by changing camera pose and location (5 for dataset and 1 image as a query image)

- Index the 25 dataset images using the code

- Compute the accuracy of the search engine – No of relevant results/Total returned results Report

Report the results for the five query images and the results snapshot. Include a general discussion about the search engine performance and how it can be improved. Also comment about the quality of the code and the way it is organized and any take away from doing this hands on assignment