Project Report

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Abstract:

1) Instruction

In this project, we will dig deeper into Visual Geo-Localization task and show the details of image retrieval. Respectively in section 2, we will implement two popular methods NetVLAD and GeM as baselines while using ResNet-18 or VGG-16 (pre-trained on ImageNet) backbone, note their accuracy with using triplet loss and the Pitt30k dataset with given parameters. Secondly, we will exhibit the reaction of baselines with different parameters, dataset (St.Lucia) to acknowledge the effects of hyper-parameters and engineering choices. Then in section 3, we will endeavor to contribute Visual Geo-Localization with our personal knowledge.

2) Experiment
3) Personal Contribution
4) Conclusion