Project 5 Writeup

Instructions

- Provide an overview about how your project functions.

- Describe any interesting decisions you made to write your algorithm.

- Show and discuss the results of your algorithm.

- Feel free to include code snippets, images, and equations.

- List any extra credit implementation and result (optional).

- Use as many pages as you need, but err on the short side.

- **Please make this document anonymous.**

Project Overview

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$$a = b + c \tag{1}$$

Implementation Detail

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1. Result 1 (Figure 1) is tiny image with nearest neighbor;

2. Result 2 (Figure 2) is tiny image with SVM;

3. Result 3 (Figure 3) is bag of words with nearest neighbor;

4. Result 4 (Figure 4) is bag of words with SVM;
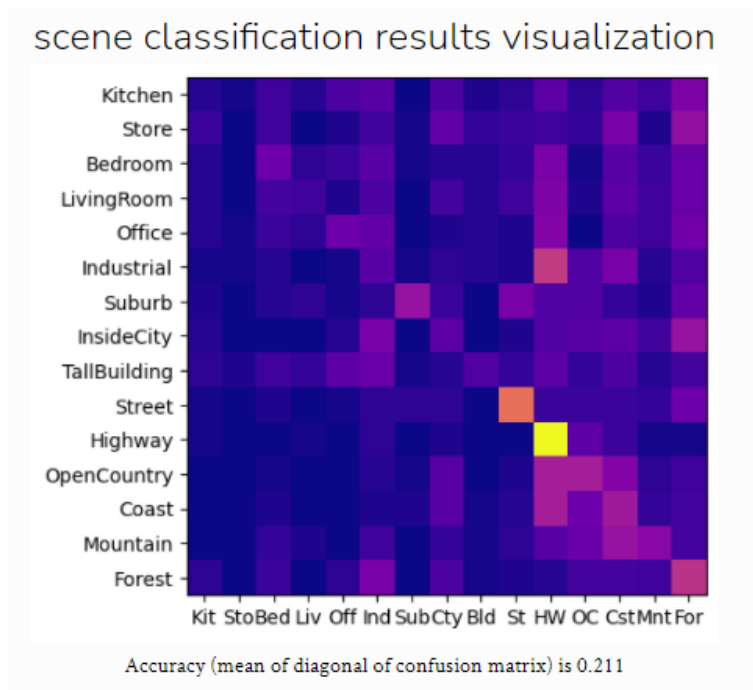
5. Result 5 (Figure 5) is place holder;
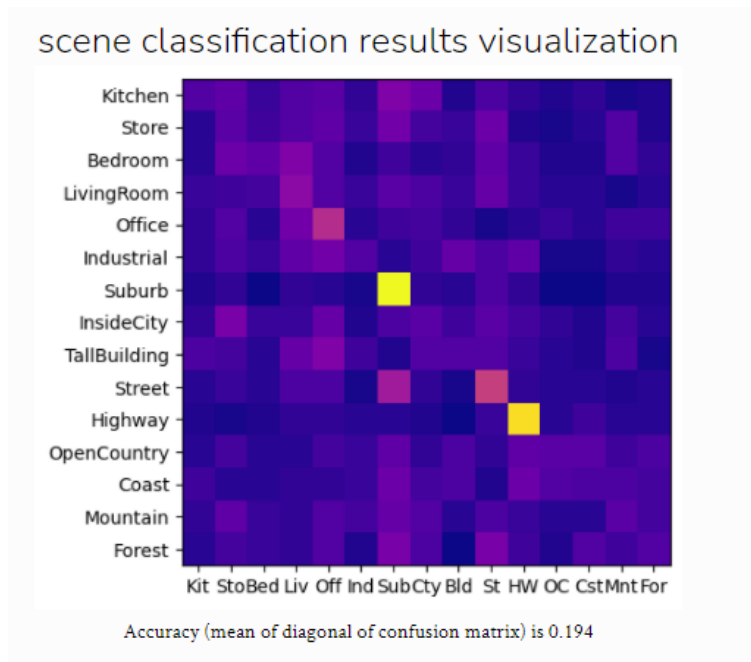

Figure 1: tiny image with nearest neighbor

scene classification results visualization
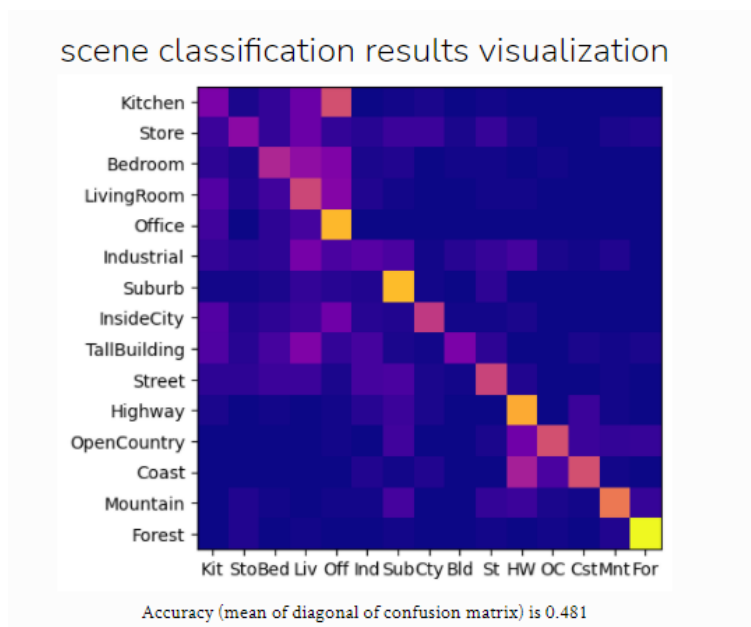
Accuracy (mean of diagonal of confusion matrix) is 0.194

Figure 2: tiny image with svm

scene classification results visualization

Accuracy (mean of diagonal of confusion matrix) is 0.481

Figure 3: bow with nearest neighbor

scene classification results visualization

Accuracy (mean of diagonal of confusion matrix) is 0.516

Figure 4: bow with svm

scene classification results visualization
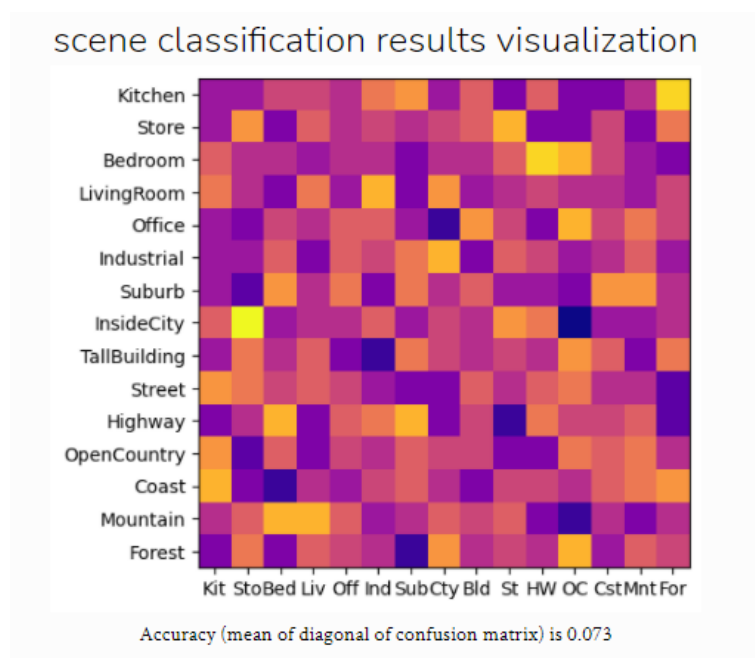
Accuracy (mean of diagonal of confusion matrix) is 0.073
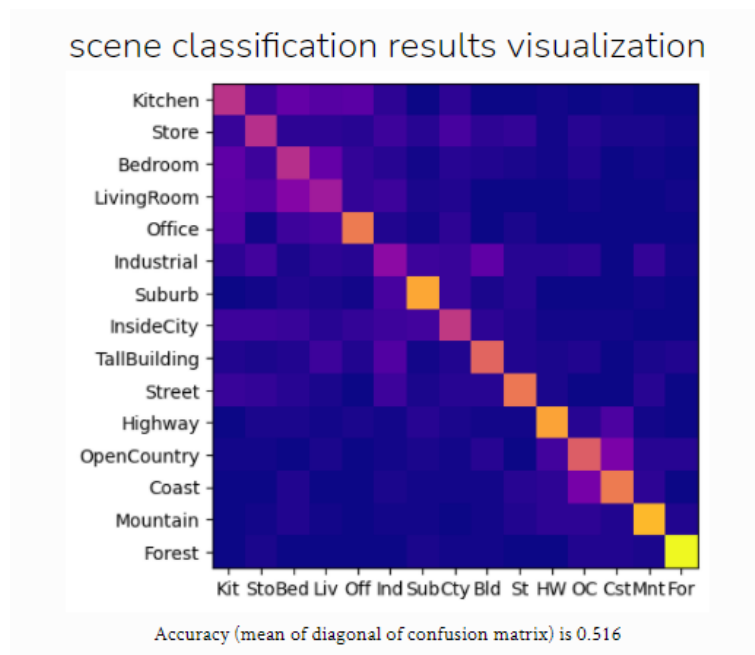
Figure 5: placeholder, which is random permutation