Section 1

Classifier Type	Accuracy
KNN 1	25.10%
KNN 5	26.25%
KNN 25	28.93%
KNN 100	27.80%
KNN 125	27.51%
SVM	47.02%
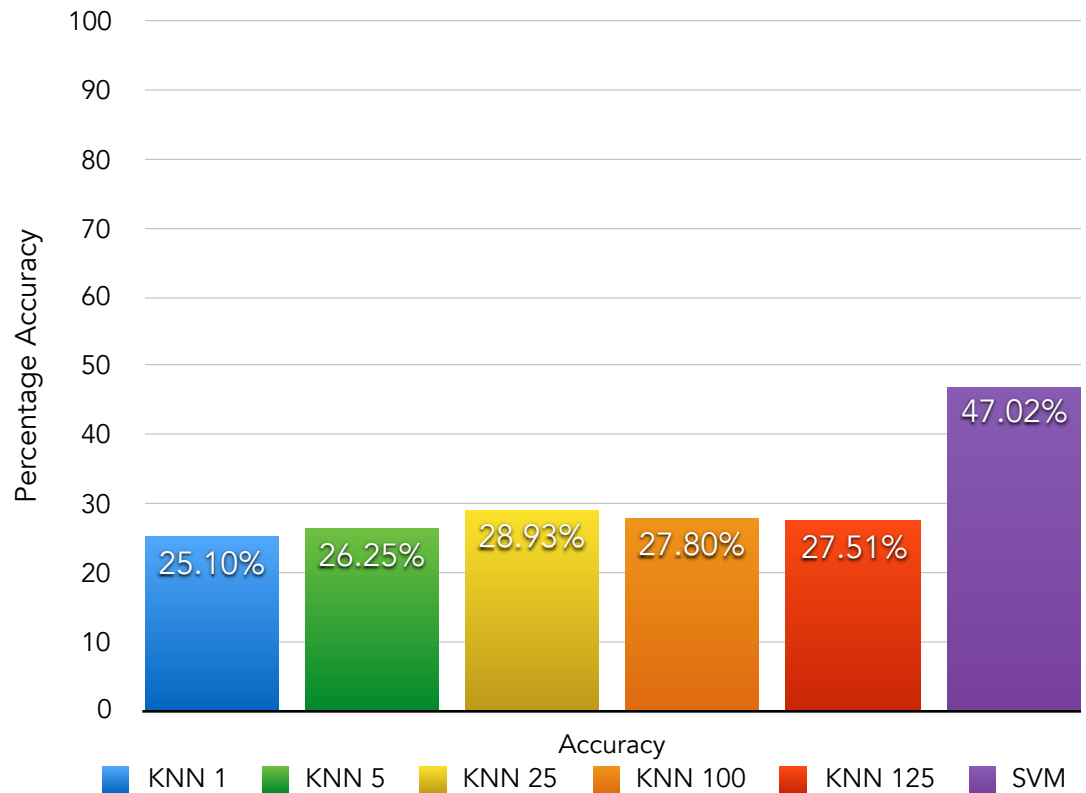
For my scene categorization, the support vector machine performed significantly better than any of the k-nearest neighbor classifiers. Of the KNN classifiers, the classifier performed best with 25 neighbors. Performance diminished overtime from then on.

Section 2

In order to test my pedestrian classifier, I chose the following images, some of which contain an images of a single pedestrian, multiples pedestrians, or no pedestrians.

Here are some of the predictions that I got out of my classifier. In order to decrease the number of false positives I used an ensemble of two SVM classifiers trained with different negative examples to help improve accuracy. The resulting classifier performs decently well at classification, although has a fairly large false positive rate.

Positive		Negative	
Correctly Classified	**Incorrectly Classified**	**Correctly Classified**	**Incorrectly Classified**