

Abstract - Assignment 2

Number recognition for street view house numbers in google maps.

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Google human workers are able to manually register house numbers with an accuracy of 98%. The goal of this project is to reach at least 98% accuracy for number recognition with one of these machine learning models:

- Naive Bayes
- Gauss-Bayes
- KNN

The results were as follows:

Model	Train	Test
Naive Bayes	0.5937666666666667	0.5878
Gauss-Bayes	0.11651666666666667	0.1093
KNN	1.0	0.9678

Min - Max normalization were required. The results were as follows:

Model	Train	Test
Naive Bayes	0.7682333333333333	0.7746
Gauss-Bayes	0.8657333333333334	0.8395
KNN	1.0	0.9678

The 98% accuracy could not be met. Other models may be needed to reach the required accuracy.