

## Machine Learning Final project Proposal

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### Project description:

Everyone can use their mobile phone to input words or numbers by hand-writing. So I am curious about how the mobile phone can recognize the words. After learning some skill in ML. I want to use SVM/KNN method to make computer recognize the numbers(0-9).

### Steps:

1. Download data from some database like (<http://www.datatang.com/> .etc). I can get thousands of samples of different types of hand-writing numbers.
2. Use this data as train set.
3. Get any picture that has numbers and transfer this picture into two-value profile(.txt).
4. Use SVM/KNN to determine what number in the picture.

### Details:

I aim to write two codes. The first one can transfer the picture profile into a .txt profile which has only two values (0 and 1). The second one is to classify the number in the picture.