Introduction to Machine Learning, Fall 2014 - Exercise session III

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Problem 1 (3 points)

Problem 2 (3 points)

Problem 3 (3 points)

Problem 4 (9 points)

(a)

Download the MNIST data from the course web page. In addition to the actual data, the package contains some functions for easily loading the data into Python/Matlab/Octave/R and for displaying digits. See the README files for details. Load the first N=5,000 images using the provided function.

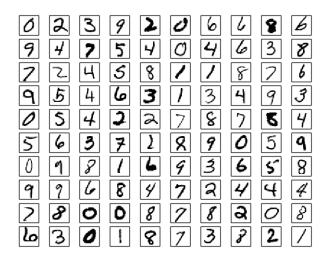
Solution to (a)

Check!

(b)

Use the provided functions to plot a random sample of 100 handwritten digits, and show the associated labels. Verify that the labels match the digit images. (This is a sanity check that you have the data [is] in the right format.)

Solution to (b)



The labels are: