Machine Learning Exercise

Problem Description:

Write a program that takes as input an image depicting a vertical array of handwritten numbers, where each row is a number between 0 and 999, and prints the number of each row. If this number is divisible by 3 print "fizz", if divisible by 5 print "buzz", and if divisible by both 3 and 5, print "fizzbuzz". Part of the fun might be that instead of hardcoding the modular arithmetic for the latter part, you are able to train a function to approximate it (if time constraints make that impractical it's OK to skip.)

An example of such an image depicting a vertical array of handwritten numbers is attached (digits.png).

The snippet used to generate the image is here: https://pastebin.com/Q27caFzg

Provide the metrics you think are best to describe the performance of your program.

You can code the exercise in the language of your preference.

A source of images with handwritten digits is the MNIST dataset:

https://en.wikipedia.org/wiki/MNIST_database