NNDescent.cpp prototype - 7/10/2021

This binary was compiled with Microsoft (R) C/C++ Optimizing Compiler Version 19.29.30038.1 for x64

With the following settings:

/Zi /EHsc /nologo /std:c++latest /O2 /fp:fast /arch:AVX2

This binary is a single threaded, extremely early prototype that has some preconditions for running.

It needs the MNIST fashion data set or other similarly size data set, like MNIST digits.

All of the data must be in big endian format (odd, I know, for my testing I just ended up going with big because I forgot what the common x64 endianess was).

The training and test data must be 32-bit floating point numbers, the ground truth must be 32-bit ints with 100 entries per test point.

The data must use the following paths:

./TestData/MNIST-Fashion-Train.bin

./TestData/MNIST-Fashion-Data.bin

./TestData/MNIST-Fashion-Neighbors.bin

The source code for this binary may be found at:

<https://github.com/AnabelSMRuggiero/NNDescent.cpp/tree/initial-prototype-archive>

I/O done: I know it's pretty scuffed at the moment.

13s total for index building

10s test set search

Recall: 90.904%