Your task is to implement the distance-weighted k-nearest-neighbor algorithm and test it using the MNIST train set from Kaggle.com.

This is a fairly easy problem and given the size of the training set, the expected accuracy is around 97%. If your accuracy is significantly lower, you are doing something wrong.

Write a report describing your results and include your source code as appendix. I am particularly interested in your accuracy, running time, and examples of misclassified instances.