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Advanced Programming

Ms. Lewellen

Day 12 Notes

KNN:

* How you determine what’s “nearest” is extremely critical.

ChatGPT’s answers vary every time you ask it even the same prompt.

Using ChatGPT’s code we can make a basic KNN classification model for the digits dataset.

Vocab:

* Classification algorithm: Algorithm that can classify (assign a pre-defined label to) data
* Binary classification: Classification but with only two groups (0 or 1)
* Multi-classification: Multiple classes are possible (over 2)
* Sample: Take a smaller selection of data to be used
* Testing set: A set of data that the model tests it’s accuracy
* Training set: A set of data that the model learns from (adjusts weights, etc.)
* Target: Correct classification or label of an element
* Feature: Element of a datapoint