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CS1030

Data Tools:

The first section of the Data Analysis 101 talked about data tools. This section was broken up into three topics. Storing data sets, Computing basic statistics, and Finding pattern in data sets. The first part talks about various ways to store data such as text files, (CSVs), and Spreadsheets. The second part covers various functions to calculate various statistics. The final part talks about finding patterns in data sets and how graphics can help visualize them.

Big Data:

The second section talks about Big Data and is broken up into The era of big data, The sources of big data, and The challenges of big data. The first part talks about large data sets can be whether it’s file size or quantity. The second part talks about where such large data sets come from. For example, scientific research, digital libraries, and medical records. The last part talks about challenges associated with big data. Those being data storage, processing, and responsible use.

Bias in Machine Learning:

The final section of Data Analysis 101 is divided into 4 sections, Machine learning algorithms, Bias in predictive algorithms, facial recognition, and language translation. The first part talks about the various machine learning algorithms that exist and how they work. The last three sections remind me very much of Hello World and that even algorithms aren’t free from bias though it was interesting to see other ways algorithms can have a bias. Sometimes in ways you don’t expect.

Unit Test:

Completing the unit test was very straight forward when completing it. On my attempt I got an 8 out of 9 questions or an 89%. I missed the last question because I didn’t read the answers closely enough but, other than that the questions were very easy. Most of the time due to having read the Hello World chapters and the way the questions are structured, for most of the questions I didn’t really have to look at the data given to figure out the answer. Most of the time, looking at the questions and answers provided the answers.