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Computer Science

Data Analytics

Data tools.

I learned a good bit about data sets, Finding patterns in data, and computing statistics. I learned that The process of data being stored may commence within a computer program, where variables retain the data in memory, but ultimately, it necessitates being stored in a durable storage format. The data should remain accessible even after the program ceases execution and ideally, it should be effortless to scrutinize.

Big data.

What got my attention in this module is that big data sets have become too massive for our conventional methods of storage and handling, which poses difficulties for computer scientists and data engineers. However, the upside is that their enormity also brings forth fresh possibilities for analysis that were previously unattainable with smaller data sets. There is a lot to do with graphs in order to keep track of your data.

Bias in machine learning.

In this module, I learned that there are many varieties of machine learning techniques, but there are three general approaches. reinforcement learning, unsupervised machine learning, and supervised machine learning. Machine learning is an algorithm that continuously enhances itself through experience, rather than relying on a programmer to manually improve it. By processing vast amounts of data, the algorithm acquires knowledge and adapts its properties accordingly.

The Unit test.

The unit test did a good job of putting down the scenarios where we must use data sets to determine the correct answer. It was a bit challenging but going through the data analytics module again it all made sense. The test let me see that data and statistics are everywhere. Overall I recommend this little course to help get a better understanding of Data Analytics.