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# Modules

## Data Tools

Data tools, I have learned a lot throughout this process. Learning different types of writing and so many different types of tools. From Databases to spreadsheets and even text Files to even graphs. I learned that when it comes to databases, they have their own unique kind of language called "query language." Which was basically code, being structured into information or as people call it data. When it comes to using these data tools if you don't have "data" or facts then nothing would work for you. You see when working with data tools such as spread sheets or databases. You need some facts so then you can calculate statistics. This will basically gather everything you just told us; and well calculate what you need to know. For example, in a spreadsheet you can calculate how many hours someone has worked a week because of the **DATA** You have entered. You must remember if you mess something up; well, there goes your data, nothing would be calculated right, and it all won't be accurate. As I took his module, I learned that every small detail counts.

## Big Data

As we all know, this world collects a lot of data. Everything has dated, everything has some type of storage. As going on about the module I learned a new word, zettabytes. Which means trillion, I never heard of that word till doing this module. So, I learned something new, it’s also crazy how by 2025, will be 175 zettabytes of data. Which is a lot, never did I think it was that much than again I am not surprised. As I read through the module, I have learned how having a lot of data can be a huge struggle if you want to calculate how many people use like #Monday on twitter, taking about 13.4 hours in just one day of data, also learned how the government satellites archives a lot of data throughout the year, as a person was said “With great power, comes great responsibility” (Uncle Ben) The government, and huge organizations like Twitter, Facebook and others gather of data and need to keep it safe because all the data collected can easily be used against others and their “Secrets”.

## Bias in Machine Learning

There are three general machine learnings, such as reinforcement learning, unsupervised machine learning and supervised machine learning. All three involve some kind of algorithm. Which they all learn over time, as they are programed to learn. There has always been some kind of bias when it comes to “Machine learning” not everyone is on board with it, some say that if that continues to happen these machines will end up taking over the world. In criminal justice system, there are a certain kind of algorithm called predictive algorithms, where a machine will predict where the next robbery will be and if the person is guilty or not, thing is we never know if these algorithms are saying the truth or not just like every human there has to be evidence behind everything, not just became the machine said so shouldn’t mean you’re guilty. As we learned they are a lot of different kind of algorithms being made, like translation algorithms and how many people don’t trust it because everyone says words differently than the translation, not everything is right when it comes to some sort of algorithms. As I learned, do you research and find reliable sources if you want accurate information.