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**What are data structures and algorithms?**  
Data structures and algorithms are systematic ways of organizing data to make it more efficient to use.

**Why do we need to study data structures and algorithms?**  
**Need for Data Structures:**

* **Data Search**
* **Processor Speed**
* **Multiple Requests**

For example, when searching for files on a computer, it will be faster to find them if the data is organized efficiently. The more data there is, the longer it takes for the computer to process it. Therefore, choosing the right data structure helps in finding files or data faster and more easily.

**Characteristics of Data Structures:**

* **Correctness**
* **Time Complexity**
* **Space Complexity**