**Data Structures & Algorithms**

1. **Why are Data Structures & Algorithms important?**

**DSA** stands for **Data Structures & Algorithms**. **Data Structures** are the different ways to store our data in the main memory, whereas **Algorithms** are the sequence of steps we follow to solve a problem. As every Software consumes memory and time, DSA **helps us to manage and optimize memory and time efficiently** in our software, hence helping us to become better Software Engineer. It also **helps us to win the sport of Competitive Programming**. Additionally, any problem can be solved using several solutions, but DSA **helps us to choose the best and most efficient solution** among the available solutions. DSA form the foundation of a good Software Developer.

1. **Analysis of Algorithms**

Before diving deeper into Data Structures & Algorithms, it is important to understand Analysis of Algorithms. It may happen that we are presented with several ways to solve a specific problem. Analysis of Algorithms allows us to pick the most efficient solution out of all the available solutions.

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