Big O Notation: Understanding Algorithm Complexity

Big O Notation measures the efficiency of an algorithm in terms of time and space complexity.

Key terms:

- 1. O(1): Constant time, irrespective of input size.
- 2. O(n): Linear time, scales directly with input size.
- 3. $O(n^2)$: Quadratic time, performance decreases with large inputs.

Understanding Big O helps optimize algorithms for better performance.