

Data Structures and Algorithms Notes

Data Structures and Algorithms (DSA) form the foundation of computer science. ■ Key Topics: 1. Arrays and Linked Lists — Linear data storage structures. 2. Stacks and Queues — LIFO and FIFO data handling. 3. Trees — Hierarchical structures used in searching and sorting. 4. Graphs — Represent networks like social media or maps. 5. Searching and Sorting Algorithms — Binary Search, Quick Sort, Merge Sort. 6. Time and Space Complexity — Big O Notation for analyzing efficiency. ■ Tip: Focus on mastering recursion and dynamic programming!