

MODULE 1:

Data Structures Essentials

- **Basis of data structure**
- **Pointer**
- **Array**
- **Stack**
 - Push
 - Pop
 - Traversal
- **Queue**
 - Single queue
 - Double queue
 - Circular queue
- **Linked list**
 - Single linked list
 - Double linked list
 - Circular linked list
- **Trees**
 - Binary tree
 - Binary search tree
 - Tree traversal
- **Graph**
- **BFS**
- **DFS**

- Dijkstra Algorithm
- Shortest path algorithm
- Hashing
 - Index mapping
 - Open addressing for collision handling
- Heap



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