Roadmap For Practicing Data Structures And Algorithms

- Practice Link
    - https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms
- Arrays & Strings
    - Basic Array And Strings Questions
    - Kadane's Algorithm
    - Dutch National Flag Algorithm
    - Sliding Window
    - Two pointers
- Multidimensional arrays
    - Traversal Based Problems
    - Rotation Based Problems
- Recursion And Backtracking
    - Basic Recursion Questions
    - Divide And Conquer
- Sorting Algoritms
    - Insertion Sort
    - Selection Sort
- Binary Search Applications
    - Binary Search On Arrays
    - Binary Search On Matrix
- Linked Lists
    - Reversal Problems
    - Sorting Problems
    - Slow And Fast Pointers
    - Modify In Linked list
- Stacks & Queues
    - Implementation Based Problems
    - Application Based Problems

- Binary Trees
  - Tree Traversals
  - Construction Of Trees
  - Tree Views
  - Standard Problems
- BST
  - Construction Of BST
  - Conversion Based Problems
  - Modification in BST
  - Standard Problems
- Priority Queues And Heaps
  - Implementation Based problems
  - Conversion based problems
  - K Based Problems
- Graphs
  - Graph Traversals - BFS And DFS
  - MST
  - Shortest Path Algorithms
  - Topological Sort
  - Graphs in Matrix
- Dynamic Programming
  - DP with Arrays
  - DP With Strings
  - DP With Maths
  - DP With Trees
  - Breaking And Partition Based Problems
  - Counting Based Problems
- Hard Recursion And Backtracking Questions
- Other Topics
  - Hashmaps
  - Tries
  - Bit Manipulation

- Greedy
- Circular Queues
- Deques - Hot Topic
- Doubly And Circular LL
- String Algorithms like KMP and Z Algorithm