CodeIT: Advanced

Advanced DSA & Technical Interviews

Overview

CodeIT Advanced is the next step for students who have completed our foundational DSA course, CodeIT Essentials. If you are looking to enter fields such as Machine Learning or App Development, we recommend you to take this course to ground your core knowledge.

Additionally, this course aims to get students comfortable with the technical interview process, helping you boost your confidence in getting that dream tech job!

Key Outcomes

1 Gain a strong foundation in the internals of data structures and algorithms

2 Advance your computational thinking skills to the next level for flexible problem solving

3 Hone your technical interview skills with the guidance of our experienced teacher-mentors

CodeIT

Curriculum

HASH TABLES

Learn about the alternative to the binary search tree, hash tables, to create an **efficient structure for searching**

HEAPS

Learn about priority queues and an important data structure to **create greedy algorithms**

GRAPHS I

Learn about how complex networks are represented in computation and how we **analyse or manipulate them with graphs**

GRAPHS II

Dive deeper into graphs with **famous algorithms like Dijkstra** to determine the shortest path in a weighted directed graph

STRING ALGORITHMS

Learn about popular algorithms such as **Knuth Morris Pratt and Boyer Moore** to analyse textual data and carry out substring search

DYNAMIC PROGRAMMING

Learn about a popular programming methodology to overcome efficiency problems through the use of **memoization and tabulation**

CodeIT

CodeIT Academy

Contact Us

@CodeITAcademy

+65 8371 8250

admin@codeitacademy.com