



Data Structure and Algorithm Foundation

Description:

A computer program is a collection of instructions to perform a specific task. For this, a computer program may need to store data, retrieve data, and perform computations on the data. A data structure is a named location that can be used to store and organize data and an algorithm is a collection of steps to solve a particular problem. Learning data structures and algorithms allow us to write efficient and optimized computer programs. Data Structure is a way of collecting and organizing data in such a way that we can perform operations on these data in an effective way.

Start Date:

Doubt Clear Time:

Course Time:

Features:

Lifetime Dashboard

Free Course

Certificate

Assignment

Quiz

What we learn:

Data structure and algorithm

Use of data structure

Practical implementation

Logical ability

Requirements:

Computer with Internet Connectivity

Basic programming understanding

Instructor:

Name:

Priya Bhatia

Description:

Expertise in data structure competitive programming and solving analytical problems and implementing data structure algorithm in multiple programming language. I have done my M.Tech in Artificial Intelligence at IIT Hyderabad and have an experience of implementation in multiple projects.

**>Introduction about Data
Structure and Algorithms**

(Hindi):

>>Introduction

**>Analysis in Data Structure
Algorithms (Hindi):**

**>Introduction to DS Algo
Analysis Part 2 (Hindi):**

**>Asymptotic Notation :
Discussion about theta
Notation:**

**>Big O Notation in DS&Algo
(Hindi):**

**>Omega Notation in DS&ALGO
(Hindi):**

**>Recurrence Relation Solving :
Master's Theorem:**

**>Recurrence Relation
Solving-Substitution method:**

**>Recursive Tree Method DSA -
(Hindi):**

**>Introduction to Divide and
Conquer DSA - (Hindi):**

**>Binary Search Part 1 - Data
Structure and Algorithm Hindi:**

**>Binary Search Part 2 Data
Structure and Algorithm - Hindi):**

**>Mergesort Part 1 - Data
Structure and Algorithm | Hindi:**

**>Mergesort Part 2 Data
Structure and Algorithm (Hindi):**

**>Mergesort Part 3 Data
Structure and Algorithm (Hindi):**

**>Introduction to Quicksort
Algorithm | Data Structure and**

Algorithm | Hindi:

**>Implementation of QuickSort |
Data Structure and Algorithm
(Hindi):**

**>Recurrence Relation of
Quicksort Algorithm | Data
Structure and Algorithm | Hindi:**

**>Problem1 based on Quicksort |
Data Structure and Algorithm |
Hindi:**

**>Problem2 based on Quicksort |
Data Structure and Algorithm:**

>Selection Procedure Algorithm:

**>Recurrence Relation of
selection procedure | Data
Structure and Algorithm | Hindi:**

>Finding of Maxima and Minima

**Using DAC | Data Structure and
Algorithm | Hindi:**