



Data Structures using Python

(From the basics)

With

Junaid Khateeb

Live Online Lectures

(just like being in a classroom from your home or office or just anywhere)

Course Curriculum

Part 1 : Getting Started with Recursion in Python

- ✚ Why recursion.
- ✚ Working in recursion.
- ✚ Internal execution of recursive programs.

Part 2 : Stacks

- ✚ Concept and the need of stack
- ✚ Implementation of stacks and variations in stacks using Lists
- ✚ Expression conversion Using stacks
- ✚ Infix,prefix and postfix expressions.

Part 3 : Queues

- ✚ Concept of a queue.
- ✚ Implementation of a queue using a list
- ✚ Different types of queues.

Part 4: Linked List

- ✚ Linked list versus other linear data structures.
- ✚ Implementation of a linked list.
- ✚ Types of linked lists.
- ✚ Doubly Linked lists.

Part 5: Binary Trees

- ✚ Concept of a tree.
- ✚ Operations on a binary tree.
- ✚ Binary tree traversal.
- ✚ Implementation of a binary tree

Part 6: Binary Search Trees

- ✚ Role of a BST
- ✚ Implementation of BST.

Part 7: Graphs

- ✚ Concept of a graph.
- ✚ Adjacency representation of a graph.
- ✚ Depth first search algorithm (DFS)
- ✚ Breadth First search algorithm (BFS)

Part 8: Sorting Algorithms

Part 9: Searching Algorithms

Salient Features Of the Course

- 1) Completely Hand on Course.**
- 2) Online Support from our App and Website.**
- 3) Theoretical concepts covered too, as they are important for certification and Interviews.**
- 4) Certification to be provided at the end of the course.**

About Junaid Khateeb

Qualification : M.E. Computer Engineering

Teaching Experience : 17 Years

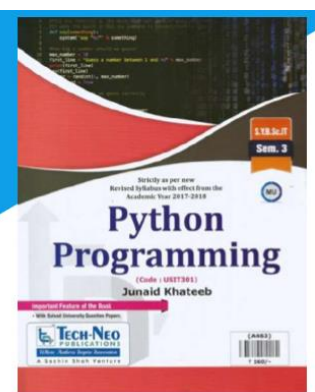
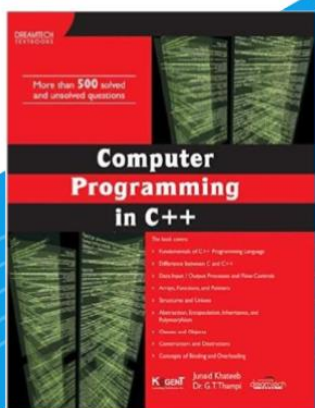
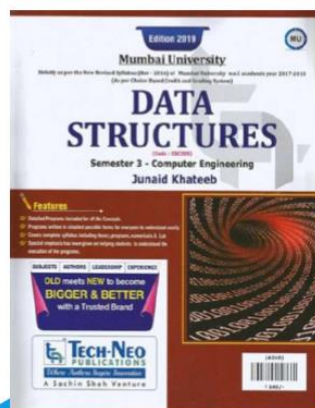
Profile: Founder of Khateeb Group of Insitutes & Junkminds.com

Technologies Taught: C , C++ , JAVA , Python , Machine Learning , Artificial Intelligence , R-Programming

Concepts Taught : Object Oriented Programming, Database Management System, Operating System, Data Structures, Software Engineering, Discrete Mathematics, Analysis of Algorithms, Distributed Processing.

Number Of students trained : over 10,000 and counting.

Author of the Following books:



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