

**BECOME PRO IN
DATA STRUCTURE**

Data Structure Course Mission

SevenMentor Institute leads the way in providing cutting-edge IT Training and Skill Development across India. We have strived to establish an ideal learning atmosphere at all our training centers. We prepare our students to become dependable future professionals. Our institute aspires to promote universal access to learning for students. To achieve our mission of promoting better learning we invite all aspiring web developers to enroll in our Data Structure Courses. Join us today to make a fulfilling career in the Data Structure sector.

DATA STRUCTURE STATISTICS:



76%

Websites have some form of Data Structure based Application

**INDUSTRY
INSIGHTS**

48%

Year on Year Growth For All Data Structure Jobs

Learn Data Structure & Be in Demand Always!

In the fast-paced and ever-evolving landscape of the tech industry, possessing a diverse skill set as a web developer is a highly coveted asset. The demand for versatile and dynamic developers in the website building domain has never been higher. Recognizing this need, SevenMentor offers an all-encompassing Full Stack Course specifically tailored to empower individuals with the knowledge and practical skills required to proficiently navigate every facet of web development.

Crafting Omnipresent Web Experiences Through Mastery Of **Data Structures**



In the realm of digital architecture, Full Stack Development stands as the art of seamlessly connecting the visible, user-facing Front-End with the hidden, behind-the-scenes Back-End of websites and applications. A Full Stack developer, akin to an architect, possesses a unique set of skills that combines the creative flair of a front-end developer with the problem-solving prowess of a back-end developer. However, beneath the surface of this dynamic landscape lies a critical foundation — Data Structures.

Start Learning to Start Applying:

Gain practical **Data Structure** experiences through well designed courses, latest tools and excellent teachers.



Experienced Faculty



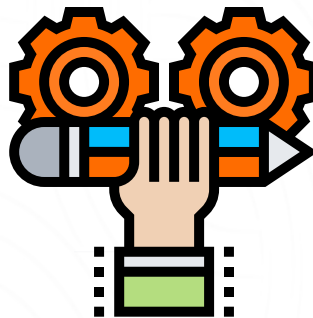
Flexible Scheduling



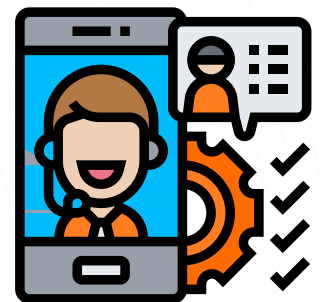
Hands-On Learning



Mock Interview Sessions



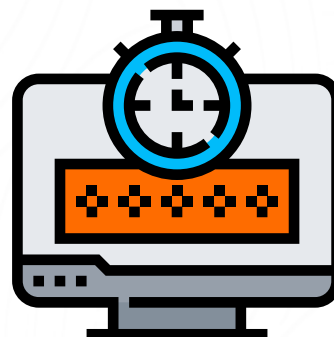
Real-World Projects



Career Support



Comprehensive Curriculum



Lifetime Access



Introduction

- Definition
- Types of Data Structures
 - Linear Data Structure
 - Non-linear Data Structure

Array

- **Array representation**
- **Operations on arrays**
 - Traverse
 - Insertion
 - Deletion
 - Search
 - Update

Stacks

- Introduction to stack
- Primitive operations on stack
- Stack application
- Infix
- Postfix
- Prefix expressions
- Evaluation of postfix expression
- Conversion between
 - o Prefix
 - o Infix
 - o Postfix

Approaches to design an algorithm

- Top-Down approach
- Bottom-Up approach

Big 'O' Notations

Introduction to queues

- Representation of Queue as an array
- Types of Queue
 - o Circular Queue
 - o Double Ended Queue
 - o Priority Queue
- Applications of Queue

Linked Lists

- Introduction to linked lists
- Types of Linked Lists
 - o Linear Linked List
 - o Circular Linked List
 - o Doubly Linked List
- Sequential and linked lists
- Operations such as
 - o Traversal
 - o Insertion
 - o Deletion

Trees

- Introduction to trees
- Terminology in trees
- Types of Trees
 - General Tree
 - Binary Tree
 - Binary Search Tree(BST)
- Traversal of binary trees
 - In order traversal
 - Preorder traversal
 - Post order traversal
 - Expression Tree
- Recursive algorithms for tree operations such as:
 - Traversal
 - Insertion
 - Deletion
- Binary Search Tree

Graphs and Hashing

- Introduction
 - Terminologies
- Representation of Graphs
 - Array representation
 - Linked List representation
- Types of Graphs
 - Undirected graphs
 - Directed graphs
- Graph traversal methods
 - Depth-first search(DFS)
 - Breadth-first search
- Applications of Graph

Hashing Techniques

- Hash Function
- Collision resolution techniques

Sorting & Searching Techniques

- Insertion sort
- Selection sort
- Merge sort
- Heap sort
- Linear search
- Binary search and hashing

Your Success Is Our Priority:

Every student at **SevenMentor** gets personalized guidance, Mentorship, and ample opportunities to address individual questions and concerns. All our sessions are designed to be engaging, interactive, and tailored to your learning pace, ensuring you grasp each concept with clarity.



Dharmaraj Pawale

Sr. Technical Trainer
(SevenMentor & Training Pvt. Ltd.)

Dharmaraj has expertise in retail as well as corporate training in Java Full Stack, MEAN Stack, MERN Stack, Hadoop-Big Data, Spark. He has extensive 19+ years experience in both Software Training and Development. He has trained more than 10000+ students and corporate professionals in India as well as overseas. He is also Salesforce Certified Administrator. His area of expertise lies in both Frontend as well as Backend Technologies. Frontend technologies include HTML5, CSS3, Bootstrap, JavaScript, React & Redux, Angular and Backend Technologies include Java, Servlet & JSP, RESTful Web Service, Hibernate JPA, Spring, Spring Boot, MicroService, Node JS, Express JS, RDBMS Databases such as MySQL, Oracle SQL, PL/SQL, NoSQL Databases such as MongoDB



Pooja Ghodekar

Full Stack Trainer
(SevenMentor & Training Pvt. Ltd.)

A passionate trainer having 6 plus years of experience in Java Full stack technologies with a comprehensive understanding of both front-end and back-end technologies, she provides in-depth training and mentorship to nurture the next generation of full stack developers. Her commitment of staying up to date with the latest industry trends and best practices ensures that her students receive the most relevant and up-to-date education in the field.



Sarika Kore

Web Full Stack Trainer

She has total 15 years of experience. She is currently working as a Technical Trainer. She did MCA and she has trained more than 3000 students for various courses. She has also worked in Net Protector Anti Virus Company for 2 years.

THINGS THAT SET US APART FROM THE REST:

SevenMentor prepares you well so that you can embark on a rewarding career in web development through our training.



Hands-On Projects: Gain practical experience by working on real-world projects, building a robust portfolio that will impress potential employers.



Flexibility: Our flexible schedule options allow you to learn at your own pace, making it perfect for both beginners and experienced developers looking to upskill.

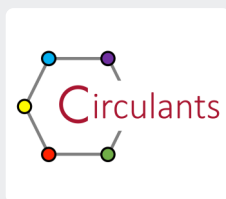


Career Support: We're dedicated to your success! Benefit from career guidance, resume building, interview prep, and job placement



Community: Join a vibrant community of like-minded learners, where you can collaborate, share ideas, and network with peers.

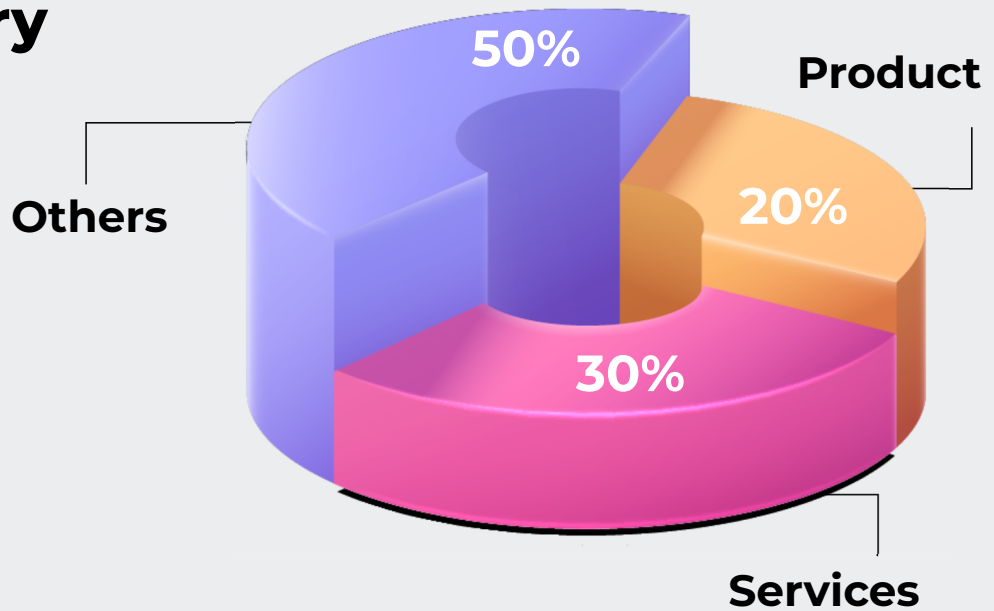
Our Students are at reputed Tech Companies



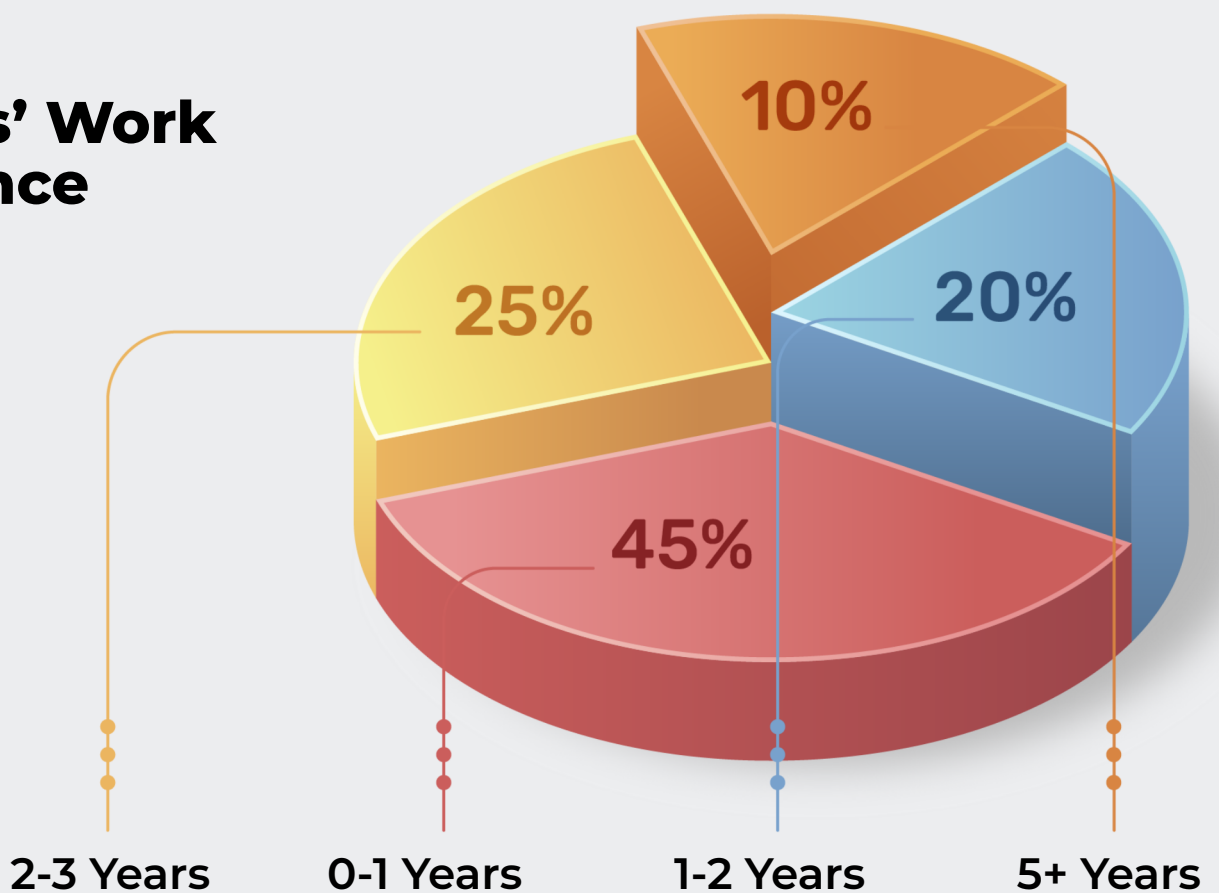
Success is around the corner!

Consider the potential earnings and opportunities that a career in Data Structure can offer. With Full Stack skills you'll be well-positioned to secure a job that provides you with a stable and potentially prosperous future.

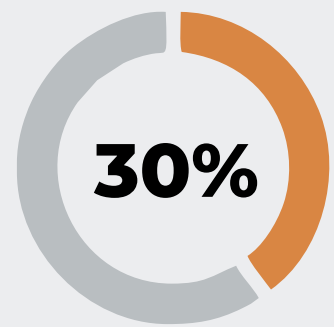
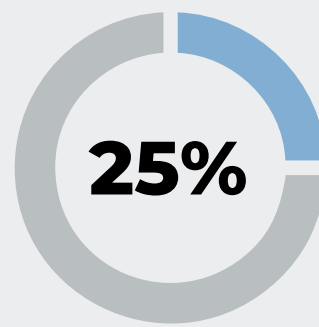
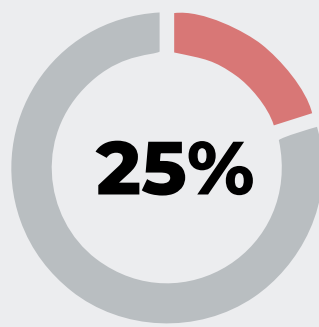
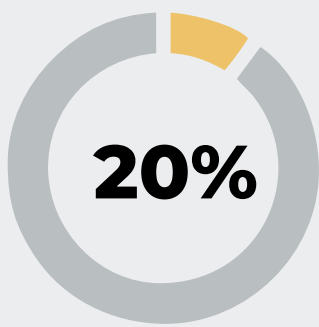
Learners' Industry Background



Learners' Work Experience



Learners' Expertise



Begin Your Journey Towards Better Future:

The global Data Structure vacancies will grow by 55% and generate 4 million new jobs by 2030.

So get ready to dive headfirst into the dynamic world of Data Structure by gaining all round experience at SevenMentor Institute

Affordable Training without Compromise:

We recognize that realizing your aspirations in the field of Data Structure should not strain your finances. At our institution, affordability is at the heart of our Machine Learning Program. We firmly believe that exceptional education should be within reach for all, and we've meticulously designed our curriculum with this principle in mind. Our Machine Learning Program promises an exhilarating learning journey at a remarkably affordable cost.

HOW TO START YOUR CAREER IN **DATA STRUCTURE**

- Enroll at **SevenMentor Institute**
- Get hands-on training from **Experienced Teachers**
- Receive Industry-recognized **Data Structure Certification**
- Work for leading **MNCs** through our **on-campus interviews**

WE ARE THERE FOR YOU

If you are interested in learning more about Data Structure training, please contact us. Our team would be happy to answer any questions you have and help you find the right training for you.

Request For Call Back



020 7117 3125