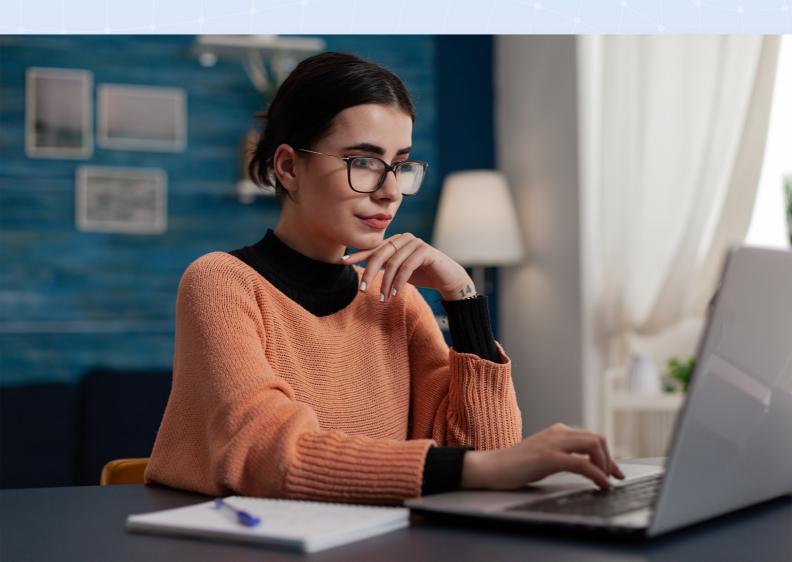


Module wise

Content and Curriculum





Module 1 DSA

- Basics
- ▶ Conditionals
- ▶ Loops
- ► Arrays(1D & 2D)
- Strings
- **▶** Functions
- Space and Time complexity
- Sorting
- ▶ Recursion

Module 2 DSA

- ► OOPs
- ▶ Linked Lists
- Binary Search
- ► Stacks, Queues, Dequeue



Module 3 DSA

- ▶ Hashing
- ▶ 2 Pointers, Sliding window, Prefix sum
- ▶ DSA projects
- Trees
- ▶ Bit Manipulation

Module 4 DSA

- ▶ Heaps
- ► DP
- ▶ Graphs

Module 5 FrontEnd

- Intro to Frontend + Github overview
- ► HTML Tags, Attributes, Tables, Form
- CSS Specificity, Combinators, Box Models
- CSS grid, variables, and media query
- Bootstrap
- JavaScript Intro Data Types
- ▶ Hoisting, Strings



Module 6 FrontEnd

- ▶ JS-Events, Objects, Primitive and non-primitive data types
- ▶ JS- Objects, Array methods, ES6 syntaxes
- ▶ JS- Error handling, Functions, Asynchronous JS
- ▶ JS- Call back & Promises
- ▶ JS- Promise Chaining
- ▶ Call Stack, Task Queue, Event Loop, Validations, Async Await

Module 7 FrontEnd

- ► Intro to React JS
- Nested Components, Sass Intro
- ► Conditional Rendering, Virtual Dom, setState asynchronous
- React-Rendering Loops, react-bootstrap
- ▶ Mounting Life Cycle
- ► Hooks- useState, useEffect, React Router, SPA
- Higher-Order Function
- ▶ Redux- Action Creator
- ► Redux- Multiple Reducers, Redux Logger, Provider



Module 8 BackEnd

- Node and Express Backend System
- ▶ Web APIs
- ▶ Node Single Threaded Js, Asynchronous Behaviour
- ▶ NPM Package Manager and Usage
- ► TP: Status codes, Testing using postman
- ► Authentication
- MongoDb
- Database Normalisation, Joins, Indexing, Caching
- ► File system
- ► Blogging Assignment