

## **FSD-MERN syllabus**

### **Front-End Development :**

Get a deeper understanding of Client Side Programming or in other words the front end development by developing highly responsive web pages across languages.

- Understand how websites work and how HTML, CSS and JavaScript contribute.
- Understand how the internet works.
- Learn HTML tags & features of HTML5.
- Learn the fundamentals of implementing responsive web design.
- How to use bootstrap to create a web page.
- Adding symbols using Font Awesome.

- Strengthen your basics in React JS.

### **Back-End Development :**

Learn the industry leading ways to design back end development with least response time, which in turn helps in the fast loading of web applications. You'll learn to connect databases with servers.

- Build multi-user web applications using the Flask, Python, Java and NodeJS framework.
- Take a brief look about node environment like npm and yarn.
- Deploy your web applications onto web servers.
- Brush up on your knowledge of fundamental developer tools such as the Unix shell, Git.
- Detailed study of Inheritance, Encapsulation, Polymorphism, Abstraction and Class and their usage in Node and Python.

### **DataStructures And Scalability :**

Learn Data Structures & Algorithms to write an efficient, robust, & optimized code. Learn how to build robust & scalable web servers with a thorough understanding of AWS.

- Get to know about structural and non structural databases.
- Learn to use MySQL and Mongo connectors.
- Getting better understanding about RDBMS concepts
- Database design and scaling.
- Take a brief intro about DevOps.
- Understanding AWS console usages
- Learn to build scalable web server using AWS.
- Cover all AWS concepts like Proxy, routing and auto-scaling.
- Understanding Basic Terminologies, Storage Scalability and situation analysis.

### **Build your Portfolio :**

Build your Full stack developer Portfolio and demonstrate your knowledge by developing an end-to-end Full-stack Application.

- Portfolio of 5+ Projects
- Hackathons
- Build your GitHub profile.