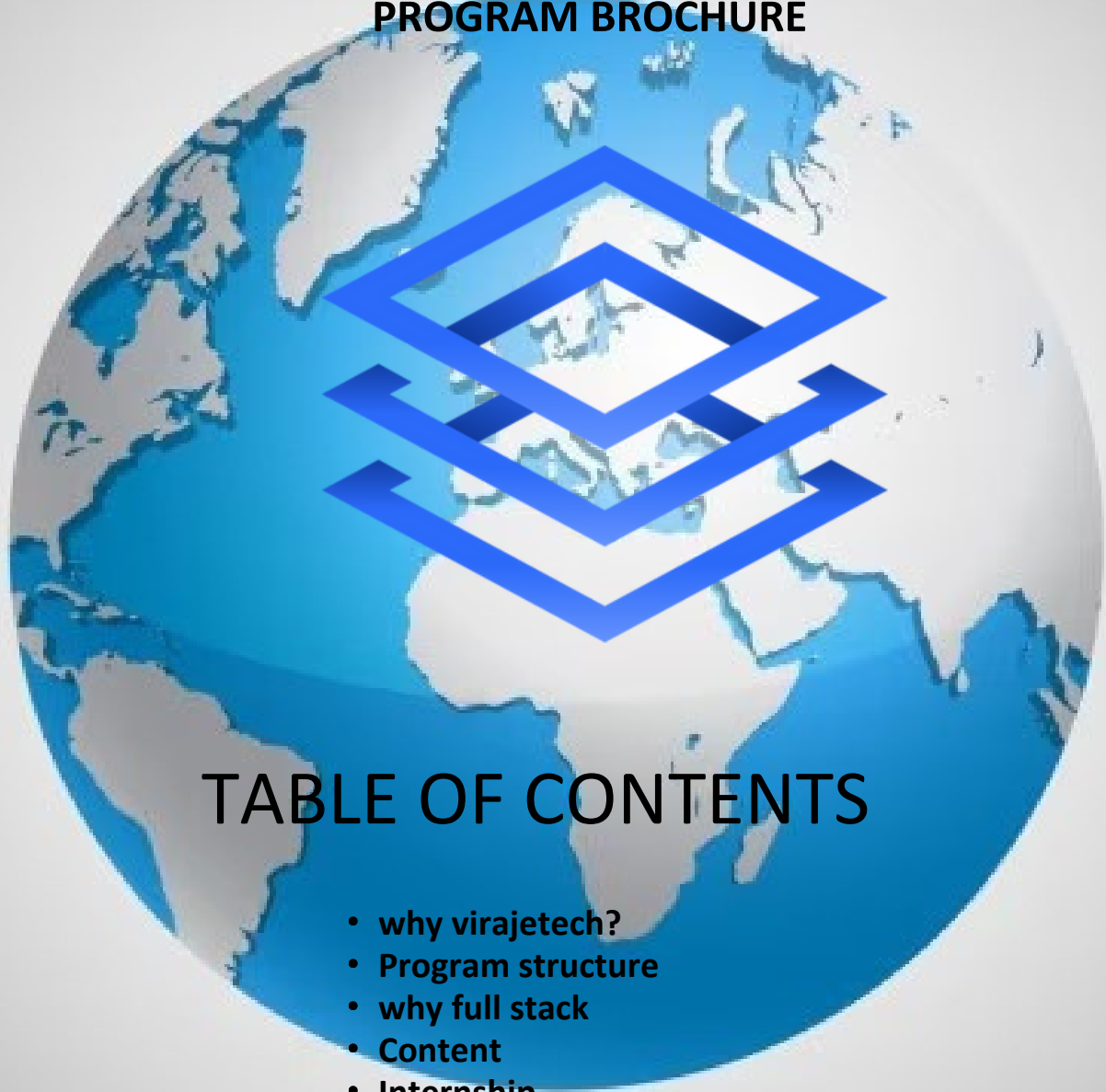




# **CERTIFIED FULL STACK**

## **PROGRAM BROCHURE**



## **TABLE OF CONTENTS**

- **why virajetech?**
- **Program structure**
- **why full stack**
- **Content**
- **Internship**
- **Virajetech expertise**
- **classes Placement**
- **assistance team our**
- **learner's feedback**
- Admissions and  
contacts**

# WHY VIRAJETECH?

## “OUR VISION”

To be the safest, most progressive Technology Provider, relentless in the pursuit of Client and employee excellence

---

**The Best Placement records in the Industry** virajetech Placement Team assisted thousands of aspirants in transitioning to Data Science career



## EXPERT TRAINERS

**10+year experienced and Industry Experts**

Elite Faculty from Prestigious universities with deep research and coaching expertise



## JOB ASSISTANCE

**End to End job Support**

Personalized resume and interview preparation support Job updates and connects

## COMPREHENSIVE

**30 hours & 700+ Learning Hrs.**

Syllabus aligned with virajetech standards and rigorously updated to match with latest industry requirements

## REALTIME EXPERIENCE

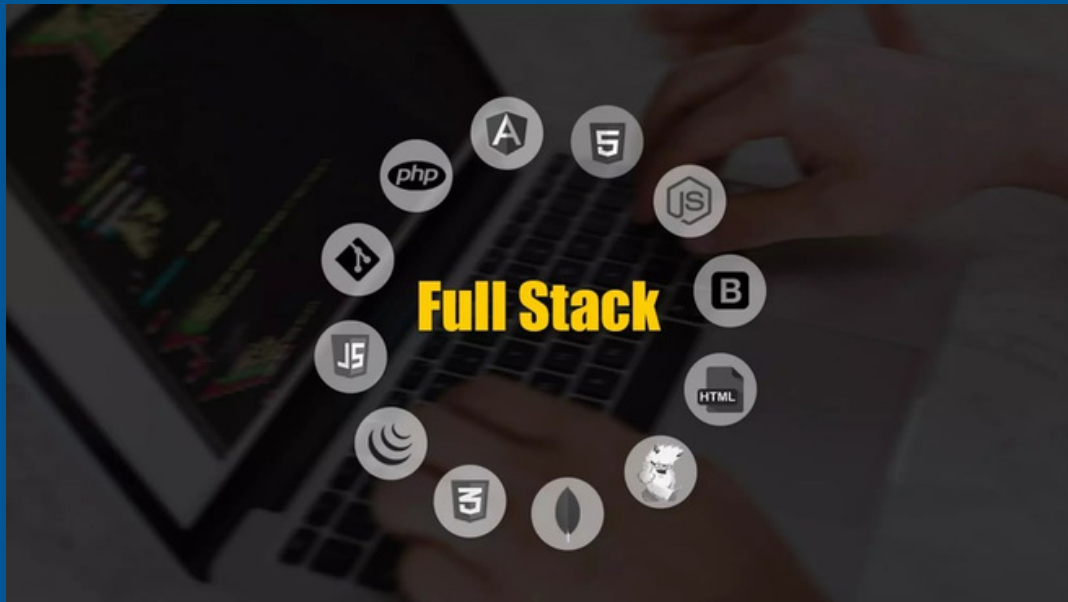
**Projects and Internships**

20 capstone projects and 1 client projects with active interaction  
Internship -developing POCs

# PROGRAM STRUCTURE

THE COURSE FOR BEGINNER'S PROFESSIONALS AND INTERMEDIATE LEARNERS IN THE FIELD OF

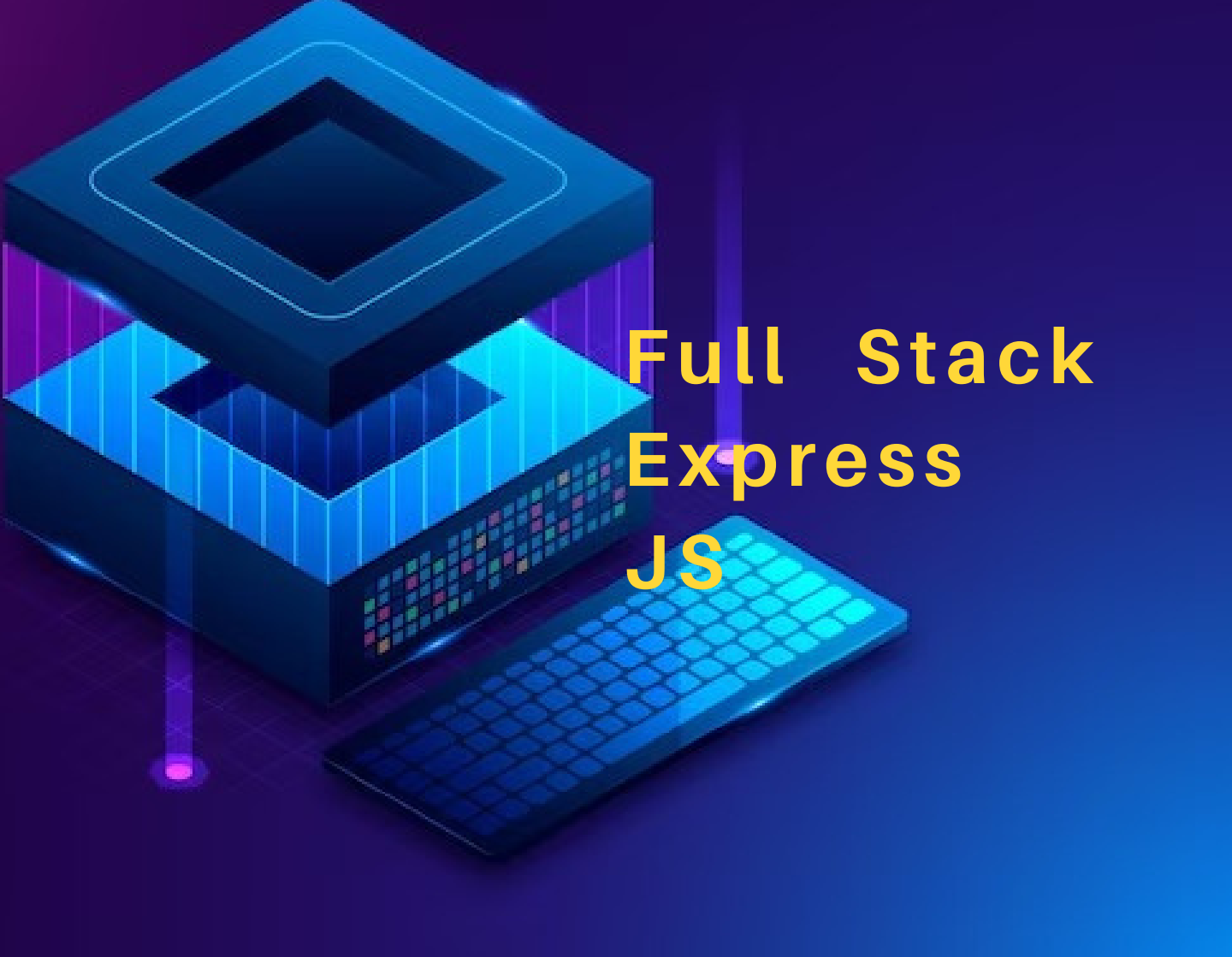
FULL STACK THIS IS A CAREER- ORIENTED PROGRAM, DESIGNED TO IMPART A STRONG FOUNDATION



- PRE COURSE SELF-STUDY
- HIGH QUALITY VIDEOS WITH
- EASY LEARNING APPROACH
- CERTIFICATIONS
- JOB READY PROGRAM

- LIVE TRAINING
- 20 HOUR A WEEK
- 2-MONTH DURATION
- COMPREHENSIVE SYLLABUS
- HANDS-ON PROJECTS
- EXPERT TRAINERS AND MENTORS





# Full Stack Express JS

## WHY FULLSTACK?



Choosing a full stack course in the IT industry offers a comprehensive and versatile skill set that empowers individuals to become proficient in both front-end and back-end development. This holistic approach to learning equips professionals with the ability to design, develop, and deploy entire web applications independently. In a rapidly evolving tech landscape, full stack developers are highly sought after as they possess a deep understanding of various programming languages, databases, server management, and client-side scripting. By opting for a full stack course, individuals position themselves as valuable assets in the IT sector, capable of handling end-to-end development processes. This breadth of knowledge not only enhances job prospects but also provides a solid foundation for innovation and problem-solving, as full stack developers can seamlessly navigate and contribute to all facets of a project.



# Full Stack Express JS

## 1 Introduction to Express.js

- *Overview of Express.js and its role in web development.*
- *Key features and advantages of using Express.js.*
- *Setting up a development environment with Node.js and npm.*
- *Understanding the basics of the Express.js application structure.*
- *Routing in Express.js and creating RESTful APIs.*
- *Middleware in Express.js and its importance.*
- *Templating engines and dynamic views in Express.js.*
- *Handling static files and assets in Express.js.*
- *Building a simple Express.js application.*
- *Introduction to Express.js generators.*

## 2 Express.js Middleware and Routing

- *Creating custom middleware in Express.js.*
- *Built-in middleware functions and their applications.*
- *Error handling middleware in Express.js.*
- *Utilizing third-party middleware in Express.js.*
- *Express.js routing and route parameters.*
- *Route handlers and controllers in Express.js.*
- *Nested routes and modular route organization.*
- *Handling form data and query parameters.*
- *RESTful API design principles in Express.js.*

### 3 Express.js Views and Templating Engines

- *Implementing views and layouts in Express.js.*
- *Configuring and using popular templating engines (e.g., EJS, Pug).*
- *Dynamic content rendering with templating engines.*
- *Partial views and view composition in Express.js.*
- *Using view helpers and utilities.*
- *Integrating front-end frameworks with Express.js.*
- *Handling forms and form submissions in views.*
- *Implementing client-side scripting in Express.js views.*
- *Best practices for view organization and structure.*
- *Real-world examples of Express.js views.*

### 4 Express.js and Databases

- *Connecting Express.js applications to databases.*
- *SQL and NoSQL database integration in Express.js.*
- *MongoDB and Mongoose for data modeling in Express.js.*
- *Querying and updating data with Express.js and databases.*
- *Implementing CRUD operations with databases.*
- *Handling database migrations and versioning.*
- *Database security considerations in Express.js.*
- *Using Object-Relational Mapping (ORM) in Express.js.*
- *Optimizing database queries for performance.*
- *Real-world examples of Express.js and database interactions.*



## 5 Authentication and Authorization in Express.js

- *Introduction to authentication and authorization concepts.*
- *Implementing user authentication with Express.js.*
- *Passport.js for authentication middleware in Express.js.*
- *Handling user sessions and cookies.*
- *Role-based access control in Express.js.*
- *Token-based authentication and JSON Web Tokens (JWT).*
- *Social authentication and OAuth integration.*
- *Implementing two-factor authentication in Express.js.*
- *Best practices for securing Express.js applications.*
- *Real-world examples of authentication and authorization in Express.js.*

## 6 Express.js RESTful APIs

- *Design principles for RESTful APIs.*
- *Creating RESTful routes and endpoints in Express.js.*
- *Handling HTTP methods and status codes.*
- *Request and response format for RESTful APIs.*
- *Versioning and backward compatibility in APIs.*
- *Documenting APIs with tools like Swagger.*
- *Rate limiting and security in RESTful APIs.*
- *Handling file uploads and downloads in APIs.*
- *Real-time communication with WebSockets in Express.js.*
- *Building and testing robust RESTful APIs in Express.js.*

## 7 Real-time Applications with Socket.io

- *Introduction to real-time applications and use cases.*
- *Setting up Socket.io for real-time communication.*
- *Bi-directional event-based communication with Socket.io.*
- *Broadcasting and room-based communication in Socket.io.*
- *Handling real-time collaboration in Express.js applications.*
- *Integrating Socket.io with Express.js routes.*
- *Scalability considerations for real-time applications.*
- *Securing real-time communication with Socket.io.*
- *Implementing notifications and updates with Socket.io.*
- *Real-world examples of Socket.io in Express.js applications.*

## 8 Express.js Security Best Practices

- *Overview of security threats in web applications.*
- *Cross-Site Scripting (XSS) protection in Express.js.*
- *Cross-Site Request Forgery (CSRF) prevention in Express.js.*
- *SQL injection prevention in Express.js.*
- *Securing file uploads and downloads.*
- *HTTPS and SSL/TLS implementation in Express.js.*
- *Content Security Policy (CSP) in Express.js.*
- *Helmet.js and other security middleware.*
- *Monitoring and logging for security in Express.js.*
- *Security audits and continuous improvement.*



## 9 Testing and Debugging in Express.js

- *Overview of testing methodologies in Express.js.*
- *Unit testing controllers, middleware, and routes.*
- *Mocking and stubbing dependencies in Express.js tests.*
- *Integration testing for Express.js applications.*
- *Debugging and profiling Express.js applications.*
- *Continuous Integration (CI) for Express.js projects.*
- *Logging and error tracking in Express.js.*
- *Performance testing and optimization.*
- *Real-world examples of testing in Express.js.*
- *Best practices for debugging and testing.*

## 10 Deployment and Scalability in Express.js

- *Deploying Express.js applications to cloud platforms.*
- *Containerization using Docker for Express.js applications.*
- *Continuous Deployment (CD) and pipelines for Express.js.*
- *Load balancing strategies for Express.js.*
- *Auto-scaling and optimization for performance.*
- *Microservices architecture with Express.js.*
- *Monitoring and logging in production.*
- *Blue-Green deployments for minimizing downtime.*
- *Handling database scalability in Express.js applications.*
- *Strategies for continuous improvement and evolution.*

# INTERNSHIP

Explore valuable internship opportunities with us! Join a dynamic and innovative environment, collaborate on real-world projects, and enhance your skills. We're seeking motivated individuals with a passion for learning and strong communication skills. This internship offers hands-on experience, exposure to industry best practices, and potential career pathways.



## VIRAJETECH EXPERTISE CLASS



## PLACEMENT ASSISTANCE TEAM



### PROJECT MENTORING

100 hours Mentoring in projects live industry

### INTERVIEW QUESTIONS

Frequently asked interview questions course included

### DOUBTS SESSIONS

Twice a week, Live doubts session from mentors and experts

### RESUME SUPPORT

Personalized resume creation support from professionals

### ALUMINI CONNECT

Connect with successful Alumni to learn from experience

### JOB COUNSELLING

Mapping your profile to suitable job role

## PLACEMENT ASSISTANCE

KANTAR

IQVIA™

genpact

Capgemini

cognizant

SymphonyAI

SagasIT  
Analytics

amazon

EXAMROOM.AI

Affine  
Data • Insights • Transformation

accenture

SUTHERLAND

TATA  
CONSULTANCY SERVICES




Mercedes-Benz

HCL


# OUR LEARNER'S FEED BACK

## HIGHEST LEVEL OF CUSTOMER DELIGHT




**ruchi s**  
1 review · 3 photos  
★★★★★ 3 months ago

VirajeTech has been a game-changer for me. Their training courses have provided me with the skills I needed to excel in my career 4X. The instructors and Arjun sir are passionate about what they do, and it shows in their teaching. Hands on and practical way of teaching, I highly recommend VirajeTech to anyone looking to further their knowledge and skills




**Anoop G**  
6 reviews  
★★★★★ 3 months ago

Getting placed at Amency was a dream come true, and I owe a big thank you to VirajeTech for making it possible. The instructors were experts in their field, and they created a supportive learning environment. The hands-on approach and practical exercises made all the difference.



**Sachidanand Shahane**  
3 reviews  
★★★★★ 7 months ago

I am part of the AWS Associate master Class. The course was designed in a fashion that we are able to cover most of the content in a very short time. our trainer Kumar sir clarified any doubt we had and also pushed us to do the practicals which is really helpful in the learning process. Hi having vast knowledge and experience in Devops and Multi cloud platform(AWS,Azure,GCP),he provide the opportunity to get as much knowledge and guidance as possible. each session are interactive has real time use cases.




**Sayali Gawde**  
2 reviews  
★★★★★ a year ago

Thanks for the AWS tutoring by Virajtech. The best decision I have taken in my career so far. Instructor was very helpful and gave all possible solutions related to the problem which we faced in real time scenarios. This is what I have experienced in this course, a very practical and beneficial one.



**Piyush Poply**  
2 reviews  
★★★★★ 3 years ago

I am connected with this organization since its inception. This is one of the best places to learn, practice and grow your skills up to the standards of the industry. As in IT industry, maintaining your skills and updating yourself is the most important thing, we should never stop learning and this is exactly what this institute provides. The online classes are really great as well as the trainers.



**Harpreet Singh**  
12 reviews  
★★★★★ 7 months ago

Give very detailed explanation and also live teaching classes. Covering all latest topics which for sure help in getting jobs in today's market

# ADMISSIONS AND CONTACTS

ENQUIRE FOR DETAILED INFORMATION FOR ENROLLMENT

DURATION: 35 HOURS

LEARNING : ONLINE MODE

b 1st floor, 64, 3rd Cross Rd, Electronics City Phase 1,  
Electronic City, Bengaluru, Karnataka 560100  
PHN NO: 8618501719



20 HOURS A WEEK COMMITMENT



**FULL STACK** IS RATED AS **THE TOP CAREER**  
HIGHEST PAID – RECESSION PROOF – MILLIONS OF JOBS



TAKE YOUR FIRST STEP TOWARDS FULL STACK CAREER

**ENQUIRE NOW**

# THANK *you*



[Virajetech youtube](#)



[virajetech Gmail](#)



[virajetech whatsapp](#)



[virajetech instagram](#)



[telegram](#)