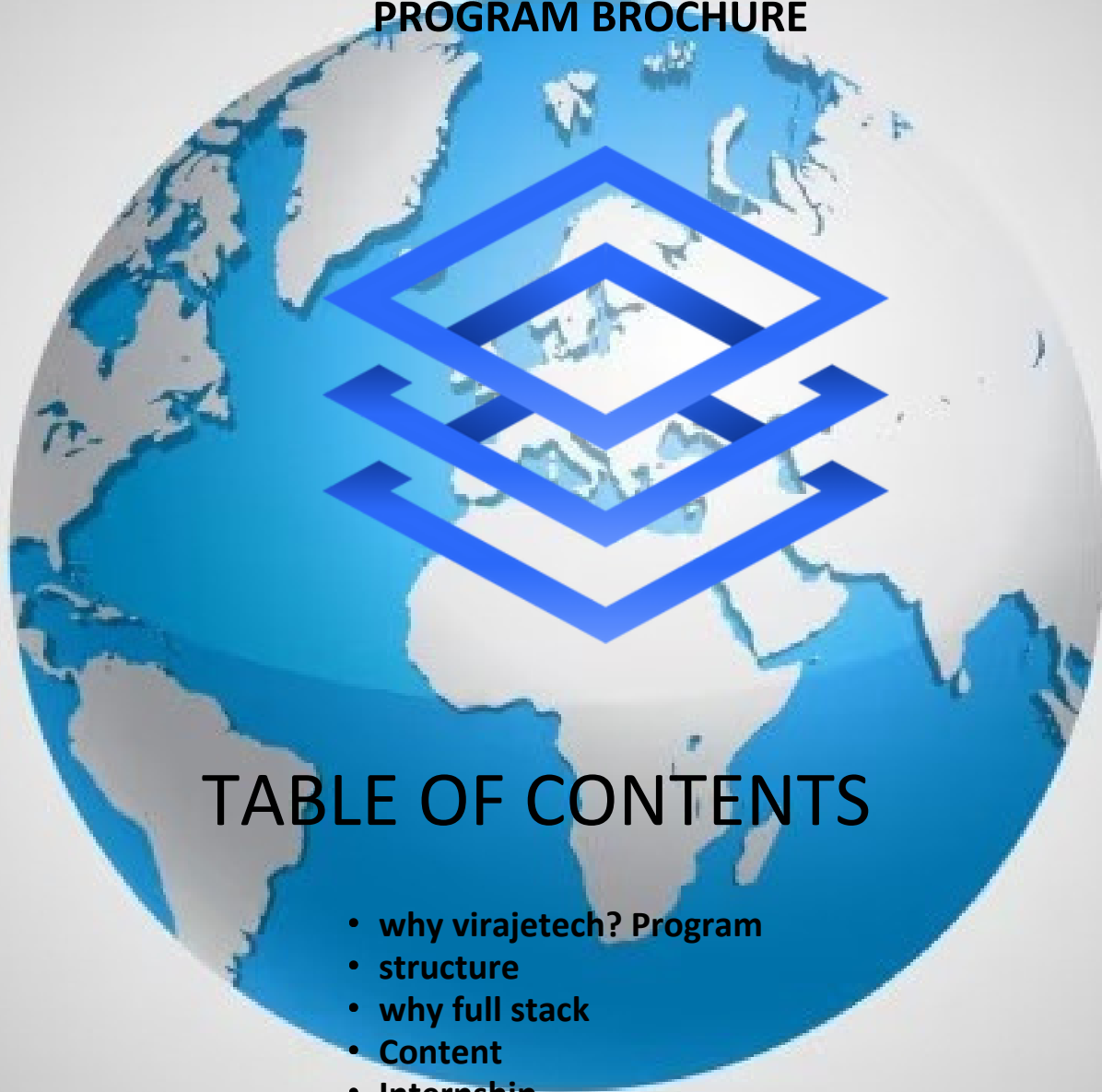




# CERTIFIED FULL STACK

## PROGRAM BROCHURE



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# WHY VIRAJETECH?

## “OUR VISION”

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

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**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

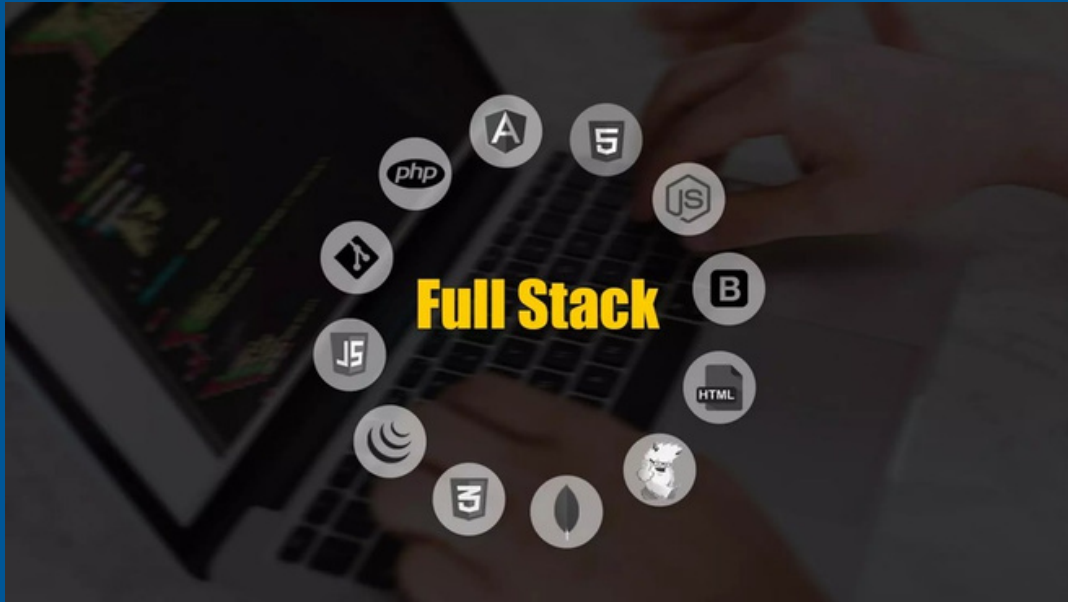
## REALTIME EXPERIENCE

**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 THIS IS A CAREER- ORIENTED PROGRAM, DESIGNED TO IMPART A STRONG FOUNDATIO



- 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





## 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 Node JS

## 1.Introduction to Node.js

- *Overview of Node.js and its role in web development.*
- *Key features and advantages of using Node.js.*
- *Setting up a Node.js development environment.*
- *Understanding the Node.js event-driven architecture. Basics of JavaScript and asynchronous programming.*
- *Node Package Manager (NPM) and package management.*
- *Building a simple Node.js application.*
- *Introduction to modules and modularization in Node.js.*
- *Handling asynchronous operations with callbacks.*
- *Debugging tools and techniques in Node.js.*

## 2.Express.js Framework

- *Introduction to Express.js and its role in web development.*
- *Setting up an Express.js application.*
- *Routing and handling HTTP methods in Express.js.*
- *Middleware in Express.js for request processing.*
- *Templating engines and dynamic content generation.*
- *Working with static files and assets.*
- *Form handling and data validation with Express.js.*
- *Session management and cookies in Express.js.*
- *Error handling and logging in Express.js.*
- *Building RESTful APIs with Express.js.*

### 3. User Authentication and Authorization

- *Importance of user authentication in web applications.*
- *Passport.js for implementing authentication middleware.*
- *Local and social authentication strategies.*
- *Implementing user roles and access control.*
- *Token-based authentication with JSON Web Tokens (JWT).*
- *OAuth and third-party authentication providers.*
- *Password hashing and security best practices.*
- *Two-factor authentication for enhanced security.*
- *Session management and cookies in authentication.*
- *Real-world examples of secure user authentication*

### 4. RESTful API Development

- *Principles of RESTful API design.*
- *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.*
- *Building and testing robust RESTful APIs in Node.js.*

### 5. 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 web 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 Node.js applications.*

## **6.Web Security Best Practices**

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

## **7.Node JS Modules**

- *Functions*
- *Buffer*
- *Module*
- *Modules Types*
- *Core Modules*
- *Local Modules*
- *Modules Exports*

## 8.Update Operation

- *What is NPM*
- *Installing Packages Locally*
- *Installing package globally*
- *Adding dependency in package Json*
- *Updating packages*

## 9.Creating Web Server

- *Creating Web Server*
- *Sending Requests*
- *Handling HTTP requests*

## 10.File System

- *Read File*
- *Writing a File*
- *Opening a File*
- *Deleting a File*
- *Writing a file asynchronously Other*
- *I/O Operations*

## 11.Events

- *Event Emitter class*
- *Inheriting Events*
- *Returning event emitter*



## 12.Database Connectivity

- *Connecting String*
- *Configuring*
- *Updating Records*
- *Working with Select Command*
- *Deleting Records*

# 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

python

aws

A

java

HTML

AI

node

spring

spring boot

CSS

hadoop

docker

spring

HIBERNATE

Bootstrap

spark

ML

puppet

android

JS

R

A

iOS

MySQL

php

Data Science

WS

CodeIgniter

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*



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