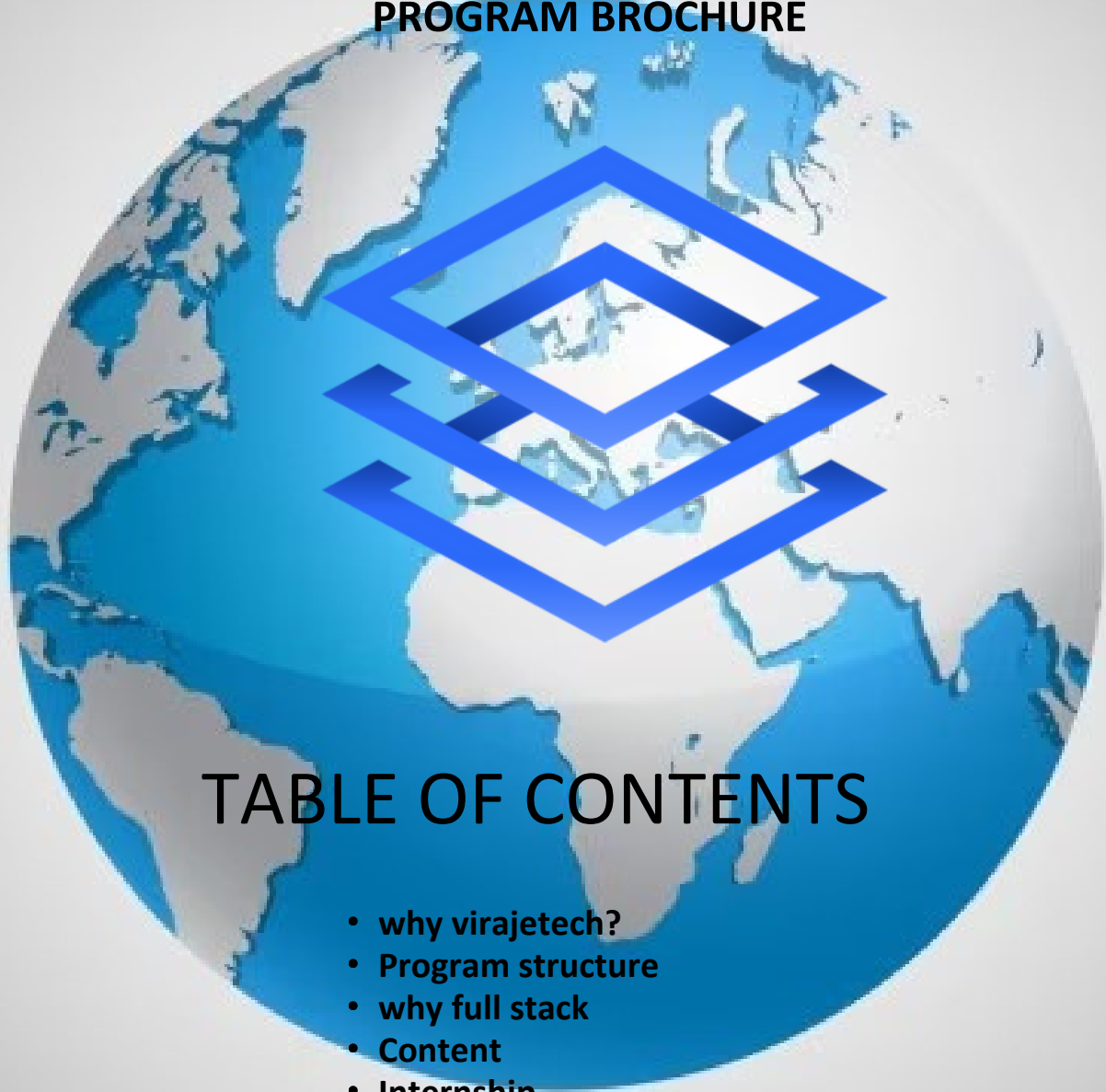




# **CERTIFIED FULL STACK**

## **PROGRAM BROCHURE**



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- **learner's feedback**
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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

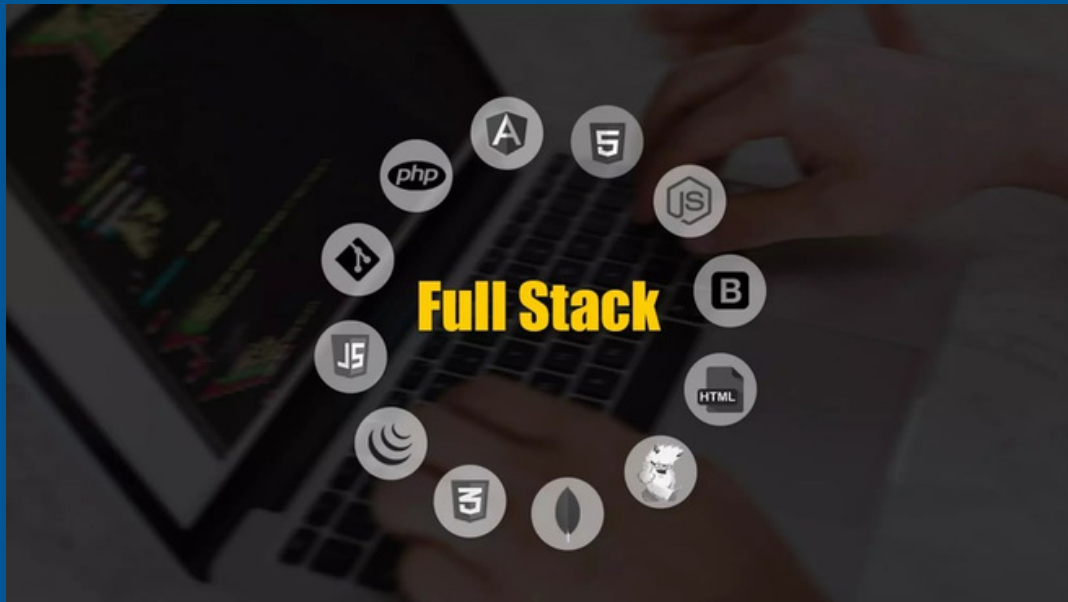
## REALTIME EXPERIENCE

**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 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 Mongo Database

## 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 Mongo Database

## 1.Introduction to MongoDB

- *Data distribution and sharding in MongoDB.*
- *Horizontal scaling strategies for large datasets.*
- *Geographically distributed clusters for global applications.*
- *MongoDB Compass: Visualizing and analyzing data.*
- *MongoDB Stitch for serverless application development.*
- *Migrating data to MongoDB: Strategies and tools.*
- *Time-to-Live (TTL) indexes for automatic data expiration.*
- *Security best practices for MongoDB deployments.*
- *MongoDB Enterprise features and advanced configurations.*

## 2.Understanding the Basics and CRUD Operation

- *Module Introduction*
- *Understanding Databases, Collections & Documents*
- *The Shell & MongoDB Drivers for Different Languages*
- *Creating Databases & Collections*
- *Understanding JSON Data*
- *Comparing JSON & BSON*
- *Create, Read, Update, Delete (CRUD) & MongoDB*
- *Finding, Inserting, Deleting & Updating Elements*
- *Understanding "insertMany()"*
- *Diving Deeper Into Finding Data*

### 3. Schemas and Relations : How to Structure Documents

- *Resetting Your Database*
- *Module Introduction*
- *Why Do We Use Schemas?*
- *Structuring Documents*
- *Data Types - An Overview*
- *Data Types in Action*
- *Data Types & Limits*
- *How to Derive your Data Structure - Requirements*
- *Understanding Relations*
- *One To One Relations - Embedded*
- *One To One - Using References*
- *Many To Many - Embedded*
- *Many To Many - Using References*
- *Summarizing Relations*
- *Using "lookUp()" for Merging Reference Relations*
- *Planning the Example Exercise*
- *Implementing the Example Exercise*
- *Understanding Schema Validation*
- *Adding Collection Document Validation*
- *Changing the Validation Action*
- *Wrap Up*

### 4. Exploring The Shell & The Server

- *Module Introduction*
- *Finding Available Options*
- *Setting "dbpath" & "logpath"*
- *Exploring the MongoDB Options*



- *MongoDB as a Background Service*
- *Using a Config File*
- *Shell Options & Help*

## **5.Diving into to Create Operations**

- *Module Introduction*
- *Creating Documents - An Overview*
- *Understanding "insert()" Methods*
- *Working with Ordered Inserts*
- *Understanding the "writeConcern"*
- *The "writeConcern" in Practice*
- *What is Atomicity?*
- *Time to Practice - Create Operations*
- *Importing Data*
- *Wrap Up*

## **6.Read Operation**

- *Module Introduction*
- *Methods, Filters & Operators*
- *Operators - An Overview*
- *Query Selectors & Projection Operators*
- *Understanding "findOne()" & "find()"*
- *Working with Comparison Operators*
- *Querying Embedded Fields & Arrays*
- *Understanding "\$in" and "\$nin"*
- *"\$or" and "\$nor"*
- *Understanding the "\$and" Operator*
- *Using "\$not"*
- *Diving Into Element Operators*
- *Working with "\$type"*

- *Understanding Evaluation Operators - "\$expr"*
- *Time to Practice - Read Operations*
- *Diving Deeper Into Querying Arrays*
- *Using Array Query Selectors - "\$size"*
- *Using Array Query Selectors - "\$all"*
- *Using Array Query Selectors - "\$elemMatch"*
- *Time to Practice - Array Query Selectors*
- *Understanding Cursors*
- *Applying Cursors*
- *Sorting Cursor Results*
- *Skipping & Limiting Cursor Results*
- *Using Projection to Shape our Results*
- *Using Projection in Arrays*
- *Understanding "\$slice"*

## **7.Update Operation**

- *Module Introduction*
- *Updating Fields with "updateOne()", "updateMany()" and "\$set"*
- *Updating Multiple Fields with "\$set"*
- *Incrementing & Decrementing Values*
- *Using "\$min", "\$max" and "\$mul"*
- *Getting Rid of Fields*
- *Renaming Fields*
- *Understanding "upsert()"*
- *Time to Practice - Update Operations*
- *Updating Matched Array Elements*
- *Updating All Array Elements*
- *Finding & Updating Specific Fields*
- *Adding Elements to Arrays*
- *Removing Elements from Arrays*
- *Understanding "\$addToSet"*



## 8. Working with Indexes

- *Module Introduction*
- *What Are Indexes & Why Do We Use Them?*
- *Adding a Single Field Index*
- *Indexes Behind the Scenes*
- *Understanding Index Restrictions*
- *Creating Compound Indexes*
- *Using Indexes for Sorting*
- *Understanding the Default Index*
- *Configuring Indexes*
- *Understanding Partial Filters*
- *Applying the Partial Index*
- *Understanding the Time-To-Live (TTL) Index*
- *Query Diagnosis & Query Planning*
- *Understanding Covered Queries*
- *How MongoDB Rejects a Plan*
- *Using Multi-Key Indexes*
- *Understanding Text Indexes*
- *Text Indexes & Sorting*
- *Creating Combined Text Indexes*
- *Using Text Indexes to Exclude Words*
- *Setting the Default Language & Using Weights*
- *Building Indexes*

## 9. Working with Geospatial Data

- *Module Introduction*
- *Adding GeoJSON Data*

- *Running Geo Queries*
- *Adding a Geospatial Index to Track the Distance*
- *Adding Additional Locations*
- *Finding Places Inside a Certain Area*
- *Finding Out If a User Is Inside a Specific Area Finding*
- *Places Within a Certain Radius*

## **10.MangoDB and Security**

- *Module Introduction*
- *Understanding Role Based Access Control*
- *Roles - Examples*
- *Creating a User*
- *Built-In Roles - An Overview*
- *Assigning Roles to Users & Databases*
- *Updating & Extending Roles to Other Databases*
- *Time to Practice - Security*
- *Adding SSL Transport Encryption*
- *Encryption at REST.*

## **11.Full Stack Development with MongoDB**

- *Integrating MongoDB into the full stack architecture.*
- *Backend development using Node.js and MongoDB.*
- *RESTful API design with MongoDB as the backend.*
- *Frontend development frameworks (e.g., React, Angular) with MongoDB.*
- *Real-time applications and WebSockets with MongoDB.*
- *Authentication and authorization in full stack applications.*
- *Deployment strategies for full stack applications.*

- *Testing and debugging in a full stack environment.*
- *Scaling and performance considerations in full stack development.*
- *Real-world examples of successful full stack applications using MongoDB*

## **12.Advanced Topics and Future Trends in MongoDB**

- *Advanced features and experimental enhancements in MongoDB.*
- *MongoDB Realm for serverless applications.*
- *MongoDB and microservices architecture.*
- *MongoDB change streams for real-time data changes.*
- *Schema design considerations and best practices.*
- *Time-series data and MongoDB use cases.*
- *Incorporating machine learning with MongoDB.*
- *Quantum computing and MongoDB.*
- *Emerging trends and technologies in MongoDB.*
- *Contributing to the MongoDB community and open-source projects.*

# 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

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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



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



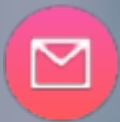
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**ENQUIRE NOW**

# THANK *you*



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