



## MERN Stack Training + Certification



### Learning Collaborations



### Global Certifications



## Intro to the MERN Stack Program

Full Stack Web Developer MERN Stack course provides complete knowledge of software development and testing technologies such as JavaScript, Node.js, React, Docker, and Protractor. You'll build an end-to-end application, test and deploy code, and store data using MongoDB. This MERN stack developer program provides extensive training in front-end, middleware, and back-end software development technologies, including testing and quality assurance. Phase-end and capstone projects are based on real business scenarios.

## About the MERN Stack Certification

This course is designed for clearing the TechVidya MERN Stack Certification. The entire course content is in line with the certification program and helps you clear the certification exam with ease and get the best jobs in top MNCs.

As part of this training, you will be working on real-time projects and assignments that have immense implications in real-world industry scenarios.

At the end of this program, there will be an assessment that perfectly reflects the type of questions asked in the certification exam and helps you score better marks.

TechVidya Course Completion Certificate will be awarded upon the completion of the project work and upon scoring at least 60% marks in the final assessment.

## Objectives of the MERN Stack Certification

- Learn core computer science concepts from leading industry experts with content structured to ensure industry relevance
- Build an end-to-end application with exciting features and test it
- Earn an industry-recognized course completion certificate

## Prerequisites of the MERN Stack Program

- This course assumes no previous experience, and takes you from the absolute beginner concepts and then goes into more detail. Any technical degree or equivalent such as B.tech, M.tech, a degree in engineering, a bachelor's or master's in computer science, and basic programming knowledge.

## Modules covered under MERN Stack Training Program

### Module 1: MongoDB

- Design Goals, Architecture, and Installation
  - What is the need for Non-RDBMS
  - Benefits of using Document-based databases
- CRUD Operations
  - Understanding of CRUD Operations
  - Functional usage of CRUD
  - Read / Write Operations with CRUD
- Schema Design and Data Modelling
  - Schema Design and
  - Data Modelling in MongoDB®
  - Various Data Structure and
  - Tools to Manage Data Model in MongoDB

## Modules covered under MERN Stack Training Program

### **Module 2:** EXPRESS JS

- An Introduction to Express JS
- Routing
- Setting Up Router
- Route Parameter and queries
- HTTP Interaction
- Handling Form Data
- Handling Query Parameters
- Error Handling
- Creating and Consuming RESTful Services
- Using Templates
- The model-view-controller pattern
- Defining Jade and Handlebars templates
- Building a front-end controller
- Defining routes
- Creating actions
- Configuring Express to use Handlebars
- Using REST
- Reading POST data
- Building Handlebars helpers
- Adding middleware
- Data Sources
- How Node.JS connects to databases
- RDBMS databases and NoSQL databases
- Connecting to RDBMS and NoSQL databases

## Modules covered under MERN Stack Training Program

### **Module 3:** REACT JS

- WHAT IS REACT JS?
  - React JS Introduction
  - Advantages of React JS
  - Work flow of React JS
  - Scope of React JS
- OVERVIEW OF JSX
  - Introduction of Virtual DOM
  - Difference between JS and JSX
  - React Components overview
  - Containers and components
  - What is Child Components?
  - What is Namespaced components?
  - What are the JavaScript expressions available in JSX?
- REACT JS ENVIRONMENT SETUPS
  - Node setup
  - How to use NPM?
  - How to create package.json and purpose of it?
  - ES6 Introduction and features.
  - Webpack Overview
  - Best IDE for React JS and How to write optimized code in React JS?
  - React JS browser plugins overview

## Modules covered under MERN Stack Training Program

- A REAL-TIME APPLICATION BY USING REACT JS
  - Create a React component with JSX template.
  - How to create Nested Components?
  - What is React JS render?
  - React Props overview.
  - Introduction of Props validation with data types.
  - Flow of States, Initialize states and update states
- REACT JS FORMS AND UI
  - Lists of Form components.
  - Setup Controlled and Uncontrolled form components.
  - Control Input elements.
  - How to set default values on all formats of Input elements.
  - React JS Form validations.
  - How to write Styles?
  - Animations overview
- REACT JS COMPONENT LIFE CYCLES OVERVIEW
  - Initial Render
  - Props Change
  - Stage Change
  - Component willMount
  - Component didMount
  - Component Unmount

## Modules covered under MERN Stack Training Program

- ROUTING IN REACT JS AND OTHER JS CONCEPTS
  - Single Page Application Overview.
  - How to configure React Router?
  - How to Handle Conditional statement in JSX?
  - IIFE in JSX for complex logic overview.
- EVENT HANDLING IN JSX
  - onBlur, onKeyUp, onChange and other useful primary events in React JS.
  - How to Sharing events between the components?
- HOW TO WRITE STYLES IN REACT JS?
  - CSS and inline styles in React JS overview
  - Introduction to styled components
- REACT ROUTER WITH NAVIGATION
  - How to Load the router library?
  - Configure the React Router?
  - How to Pass and receive parameters?
  - Integration of React-cookie overview
- FLUX OVERVIEW
  - What is Flux Architecture?
  - What are the Flux Components available?
  - Stores & Dispatchers.
  - View Controllers & Actions.
  - How Flux works?
  - Flux and React works together.

## Modules covered under MERN Stack Training Program

- REDUX OVERVIEW
  - Introduction to One Store.
  - Provider Component
  - Actions.
  - Reducers.
  - sagas
  - Dispatchers
  - View Controllers
  - Selector
- UNIT TESTING OVERVIEW
  - What are the necessary Tools required for Unit Testing?
  - React Unit Testing overview
  - Introduction to JEST.
  - How to Test React Component?
  - How to Test React Router



## Modules covered under MERN Stack Training Program

### **Module 4: NODE JS**

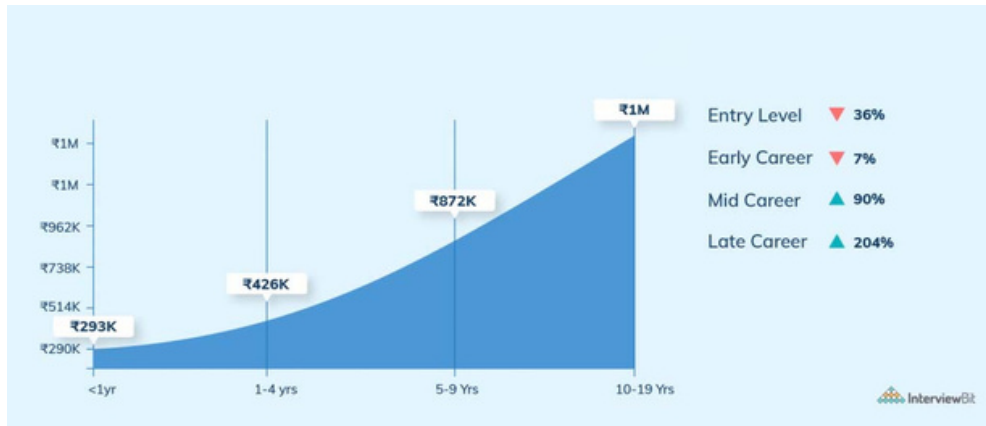
- Introduction to Node JS
  - Introduction & Foundation
  - Introduction to the Node JS framework
  - Installing NodeJS
  - Using NodeJS to execute scripts
  - The Node Package Manager
  - The package.json configuration file
  - Global vs local package installation
  - Automating tasks with Gulp
  - The HTTP protocol
  - Building an HTTP server
  - Rendering a response
  - Using Representational State Transfer
  - Express Framework
  - Connecting to Mongo databases
  - Performing CRUD operations
  - Using NodeJS to execute scripts
- NodeJS Projects
  - The Node Package Manager
  - NodeJS Creating a project
  - The package.json configuration file
  - Global vs local package installation
  - Automating tasks with Gulp
- HTTP
  - The HTTP protocol & Building a HTTP server
  - Rendering a response & Processing query strings
  - NodeJS using Representational State Transfer
  - Configuring TLS

## Modules covered under **MERN Stack Training Program**

### **Module 5:** Projects And Interviews

- Covering all the concepts
- Project Work
- Resume Preparation
- Interview Question Preparation

## Benefits as MERN Stack Professional



## Our Training Benefits as MERN Stack Program

- Our complete training is constructed as per the current industry standard.
- Live Project & Industrial Based Training.
- One of the biggest team of Certified Expert & Competent Trainers.
- Easy to understand study material.
- Regular and Weekends classes for IT & Software training is provided.
- Interaction, analysis and case studies are an integral part of the training.
- Smart Labs with Real Latest Equipments.
- Students are free to access the labs for an unlimited number of hours
- Free Study Material, e-PDFs, Video Trainings, Sample Questions.
- Globally Recognized Course Completion Certificate.
- The ability to retake the class at no-charge as often as desired.
- One-on-One attention from instructors.
- Helps students to take knowledge of complex technical concepts.
- Post Training Support will help the students.
- Personality Development & Interview Preparation classes.
- 100% Job Assistance with dedicated training & placement team.



# Join One of the Best MERN Stack Training Institute in India

(In-Class & Live Online Training by Industry Experts)



**5740+**  
Batches Completed



**68806+**  
Students Trained



**470+**  
Skilled Instructors



## Our Latest Reviews



Hi All, I am Shilpa and i have done my Certification from TechVidya. The study environment is good and trainers are full of knowledge. I personally recommend TechVidya Institute to all the students who looking for quality education and sincere about there future.

I am grateful to TechVidya - both the faculty and the Training & Placement Department. They've made efforts ensuring maximum number of placed students. The Institute started grooming us for placements in the first few months including courses such as Professional Excellence Program and Professional Skills Enhancement. I suggest to join TechVidya which comes under top 10 IT & Software training institute.



Hi I am Amit Kumar and my Enrollment ID with TechVidya is TV230967. I completed my Certification from TechVidya. They provides IT & Software courses in more practical & real scenario basis. Complete project based training help me to sharpen my technical skills.

TechVidya has always believed in helping and guiding its students and it was no different during the placement time. Regular classes held to help us with our aptitude and technical skills. Recommend to all the students who looking for best computer classes with quality education. Thanks TechVidya for explore my career.



## RECORD BREAKING PLACEMENTS 100% JOB PLACEMENT ASSISTANCE

MEET OUR PLACED STUDENTS



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Newgen



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Star Solutions



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Chetu India



Neha Bisht  
PayTM



Jeewan Singh  
Aavishkar Ent.









Prem Prakash  
MPS Limited





## Career Assistance Services



-  **Career Oriented Sessions**  Throughout the Course
-  **Resume & LinkedIn Profile Building**  After 70% of the Course Completion
-  **Mock Interview Preparation**  After 80% of the Course Completion

-  **1 on 1 Career Mentoring Sessions**  After 90% of the Course Completion
-  **Assured Interviews**  After 90% of the Course Completion
-  **1 Year Placement Assistance**  After 100% of the Course Completion

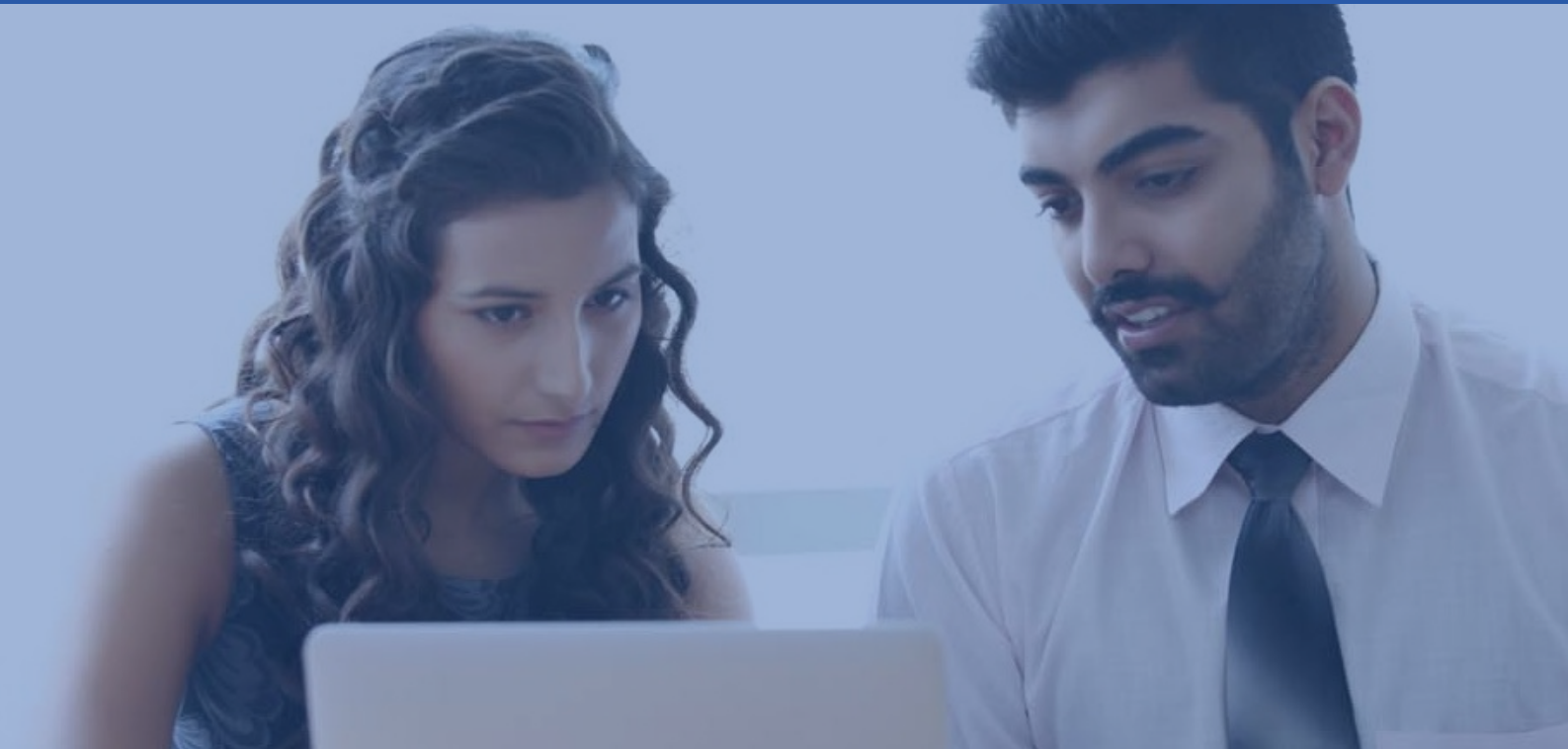




# Our Top Placement Partners







## TechVidya In News



08-Jan

ET Now- Startup Central

TIMESNOWNEWS.COM

22-Dec

What skills in demand & how should upgrade?

THE HINDU  
BusinessLine

14-Nov

Turning executive education into class act

EducationTIMES  
EST. ESTABLISHED

30-Sep

TechVidya Campaign  
#StayUpdatedStayAhead

YOUR  
STORY

02-Sep

How TechVidya enhance learning experience

THE ECONOMIC TIMES

16-Jun

The journey of an EduTech Company



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