



INDUSTRY  
READINESS PROGRAM

# AI-ENHANCED FULL STACK DEVELOPMENT(MERN)



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# ABOUT ENTRI ELEVATE

**Entri Elevate** is an immersive training program meticulously crafted to enhance your skill set and transform you into a job-ready candidate. This program is meticulously designed and led by seasoned trainers who provide comprehensive guidance throughout your journey. With access to expert mentors from diverse top industries, Entri Elevate ensures you gain invaluable industry exposure essential for success in your chosen field.

In addition to technical classes, Entri Elevate offers soft skills sessions to equip you with the essential interpersonal and communication skills vital for succeeding in today's competitive job market. Through Entri Elevate, you'll not only gain proficiency in your chosen field but also develop the holistic skills necessary to excel in interviews and beyond.





# AI-ENHANCED FULL STACK DEVELOPMENT (MERN)

## About

MERN Stack Development is a top choice for web developers aiming to create high-quality web applications using JavaScript. The Digital Engineer in MERN Stack training program offers certification to qualify for industry-grade jobs. Developers favour the MERN stack for its flexibility and open-source nature.



### FORMAT

Online (Recorded Video  
Lectures + Interactive  
Mentored Learning)



### TIME COMMITMENT

8-12 Hrs/Week



### DURATION

7 months + 1 month capstone project



## Program Highlights ←

- 1 Tailored Curriculum aligned with Industry Standards
- 2 Inclusive & Immersive Hybrid Training Sessions
  - a. Mentor-Led Live Core Sessions
  - b. Self-Paced Learning Contents in Native Language (Malayalam)
- 3 Free Soft Skills Training
- 4 Industry Expert Sessions
- 5 80% Hands on Experience
- 6 Placement Assistance for Eligible Learners
- 7 Community Linking
- 8 Certifications
  - a. Mid Level Certification (Except for Data Science course)
  - b. Entri Course Certification
  - c. NSDC Certification - National
  - d. Illinois Certification - International

## MERN Stack Learning Path ←

- 1 Pre-Learning Module
- 2 Web Application Development Fundamentals
- 3 Basic Front End Development - HTML5, CSS3, Bootstrap
- 4 Programming Language - JavaScript
- 5 Front End Development using React



- 6 Back End Development
  - a. Node.js - Server side
  - b. Express.js- RestAPI creation
  - c. MongoDB - Database Development
- 7 MERN Stack App Development & Deployment
- 8 Project Development
- 9 Placement Training & Soft Skills

## Assessments & Tasks ←

- Formative Assessment
  - Topic based Assignments
- Comprehensive Assessment
  - Module End Assignments
  - Mini Project
  - Capstone Project
- Summative Assessment
  - MCQ
  - Coding
- Competitive Tasks





# CURRICULUM

AI-Enhanced Full Stack Development (MERN)					
Program Schedule - ACCELERATED					
Week #	Session #	Module	Topic	Session Type	
	Session 0	Foundation Module	Program Orientation	Live	
			Pre-Learning	Self-Paced	
Week 1	Session 1		Introduction to FSD, HTML5 & Boilerplate	Live	
			HTML Basic Tags - html, head & body		
	Session 2		HTML5 Content Tags - h1-h6, p, span, images, lists		
			HTML5 Layout Tags - header, main, footer, section, article, nav		
Week 2	Session 3		Assignment: 1 (Portfolio)	Self-Paced	
	Session 4		HTML5 Forms & Basic Validation	Live	
			Session 5		Web Speech API
Week 3	Session 6		Webpage Creation using HTML5		Live
			Assignment:2 (Portfolio with a contact form with Validation)	Self-Paced	
	Session 7		Introduction to CSS3 & Properties - color, background color, id, class	Live	
			Session 8		CSS Box Model - Margin, Padding
Week 4	Session 9				CSS Flex Box - flex, flex-direction, justify, align, gap
	Session 10		CSS Grid - Grid rows, columns and properties		
			Assignment: 3 (Style the portfolio using css3)	Self-Paced	
	Session 11		CSS Positioning Layout- static, relative, absolute, fixed, sticky	Responsive Webpage Designing with Media Queries	



Week 5	Session 12	Web Design Essentials	Assignment: 4 (Make the portfolio responsive using CSS)	Live		
	Session 13		Introduction to Bootstrap, Installation & Components	Self-Paced		
	Session 14					
	Session 15					
	Session 16					
Week 6	Session 17		Website using Bootstrap	Live		
	Session 18		Assignment:5 (Create a simple responsive website using bootstrap)	Self-Paced		
			Session 19	Git & Github - Git local commands, git remote, branches	Live	
				Branching & Hosting		
	Week 7		Module 1 End		Module Evaluation:: Front End using HTML/CSS/Bootstrap (Website Building)	Virtual
Session 20				Javascript Introduction & Basics - let,var,const	Live	
Session 21				DataTypes - Primitive & Reference		
Session 22				Operators & Expressions		
Session 23				Control Statements - Conditional & Looping		
Session 24				Assignment: 6 (programs)	Self-Paced	
				Session 25	Functions - function, parameters, return statement	Live
					Arrow Functions & Callbacks	
Session 26				Javascript DOM & Selectors - getElementById,getElementsByClass Name()		
				getElementsByTagName(), querySelector(), querySelectorAll()		
Session 27		Assignment: 7 (programs)		Self-Paced		
		Gemini API				



	Session 28	JavaScript	Form Submission & Validation	Live
	Session 29		JavaScript on a Webpage	
			<b>Assignment: 8</b> (To do list)	Self-Paced
	Session 30		APIs - fetch API, then, catch, JSON and Objects	Live
	Session 31		Asynchronous JavaScript: Callback/Callback Hell/Promise/Async Await	
	Session 32		Javascript program with API	
			<b>Assignment: 9</b> (Phonebook with Fetch API and Asynchronous JavaScript)	Self-Paced
	Session 33		Arrays & array functions - push, pop, shift, unshift, slice, splice, string methods	
	Session 34		Rest & Spread operator, map, filter, reduce, foreach	
	Session 35		Web Development using JavaScript	
	Session 36		Revising advanced javascript	Live
	<b>Module 2 End</b>		<b>Module Evaluation::</b> <b>Front End using HTML/CSS/</b> <b>Bootstrap/JavaScript</b> <b>(Sign up Form Validation)</b>	<b>Virtual</b>
	Session 37		First React project with Create React App(CRA) & Vite	Live
	Session 38		JSX & Components - importing an HTML webpage to React, adding CSS, componentization, module import export	
	Session 39		Reusable components - Passing data to components using props, conditional rendering	
	Session 40		Styling using Tailwind	
	Session 41		Webpage creation using React and Tailwind	
			<b>Assignment: 10</b> ( Product listing using React )	Self-Paced
	Session 42		Lists & Events	
	Session 43		React Hooks - useState, useEffect	
	Session 44		Connecting to API - useEffect, fetch & Axios	



	Session 45	FrontEnd - ReactJS	Form validation with React	Live
	Session 46		React Router - Root Layout, Child Pages, Error page, loading data to pages	
	Session 47		Forms and Data Fetch using Loaders, URL params in Loaders	
			Assignment: 11 ( create a home page, about page, user page using Routing)	Self-Paced
			TensorFlow.js	
			TensorFlow.js & Dialogflow	
	Session 48		State management using Redux - Global state, redux store, slices and reducers	
	Session 49		Redux Basics, useSelector & useDispatch Hooks	
	Session 50	Web page using Redux	Live	
Module 3 End		Mini Project	Virtual	
	Session 51	Mini Project	Mini Project Day 1 - Orientation	Live
	Session 52		Mini Project Day 2 - Review 1	Live
	Session 53		Mini Project Day 3 - Mock Interview	Mock Interview
	Session 54		Mini Project Day 4 - Review 2	Live
	Session 55		Mini Project Day 5 - Mock Interview	Mock Interview
	Session 56		Mini Project Day 6 - Review 3	Live
	Session 57		Mini Project Day 7 - Mock Interview	Mock Interview
	Session 58		Mini Project Day 8 - Review 4	Live
	Session 59	Mini Project Day 9 - Submission	Mock Interview	
Mini Project End		Intermediate Assessment	Virtual	
	Session 60		Intro to Backend, ExpressJS Project, package.json, npm	
	Session 61		Introduction to NodeJS - REPL, Built-in Node modules	
	Session 62		Routes and HTTP methods - req & res, GET, POST, PATCH, PUT, DELETE,	
	Session 63		Express Router and MVC architecture	
			Status codes (use array for data storage)	



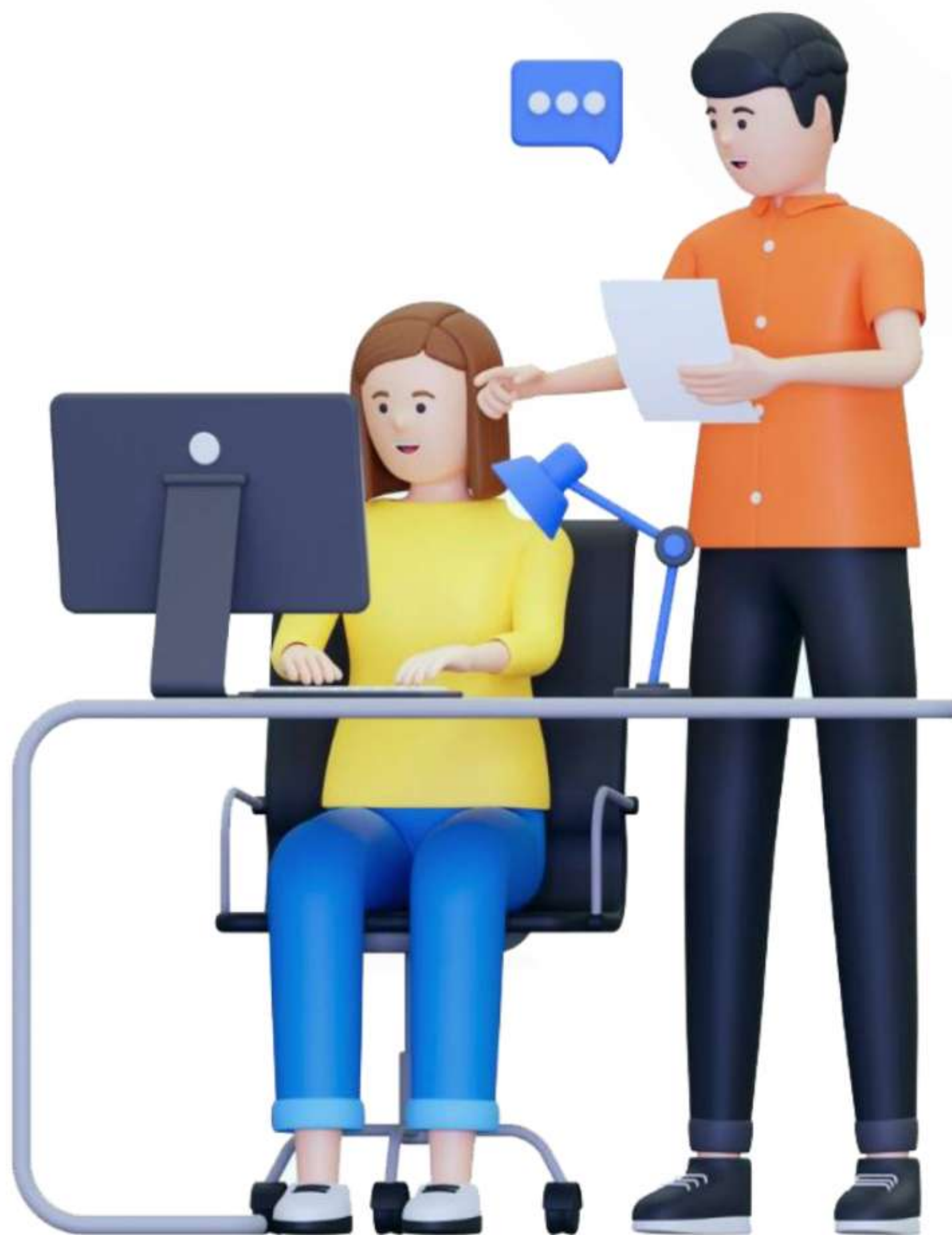
			Assignment: 12 (Simple Inventory Management System)	Live
				Self-Paced
	Session 64	Backend	ExpressJS Routes, Middlewares and Testing using Postman	
	Session 65		Building backends using Express	
			RapidMiner	
	Session 66		Introduction to Databases, SQL v/s NoSQL, Schema, Document & Collection	
	Session 67		MongoDB Compass, Atlas, Connection using Mongoose, Schema & Model	
	Session 68		Basic Query Learning & CRUD Operations	
			Assignment: 13 (Database Task)	Self-Paced
	Session 69		Mongoose queries in routes, Error Handling	
	Session 70		Aggregation & Indexing	
	Module 4 End			Module Evaluation:: Backend Side Development (CRM Project)
Session 71	MERN Stack Integration	JWT Authentication		
Session 72		Signup and login - JWT, Bcrypt		
Session 73		Protected routes, role based authorization		
Session 74		Connect Login Page to BackEnd, Protected Routes in Frontend		Live
		Assignment: 14 (CRM project with authentication and database connectivity)	Self-Paced	
Session 75		Integrating Backend and Frontend		
Session 76		Deploying Frontend and Backend		Live
Module 5 End			Module Evaluation:: MERN Stack Application Development & Deployment	Virtual



# CAREER SUPPORT

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- Benefit from Comprehensive Placement Assistance: Gain Access to Diverse Job Opportunities Across Various Industries.
- Experience Industry Mentorship: Receive Guidance from Seasoned Mentors at Leading Companies such as Tesla, Google, Samsung, and Zeta to Propel Your Career Forward.
- Resume Review Obtain specific, personalized inputs on your resume structure and content





# PLACEMENT PARTNERS

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# WE ARE LOCATED AT

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Entri HQ

## 2. Karnataka

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Entri Business  
Development Center

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Entri Inc





THANK YOU