

Welcome to ineuron.ai

**M.E.R.N
Stack
Beginner
to
Advance
with
Internship**



MERN Stack Beginner to Advance with Internship

Description:

This is a MERN stack live mentor led certification program along with full time 6 months internship provided by iNeuron intelligence private limited, where you will learn all the stack required to work in MERN, hosting including cloud technologies and real time industry project and product development along with iNeuron product development team and you will contribute on various level with iNeuron .

Start Date:

Doubt Clear Time:

Course Time:

Features:

- # Online Instructor-led learning: Live teaching by instructors
- # Every week doubt clearing session after the live classes
- # Lifetime Dashboard access

Doubt clearing one to one

Assignment in all the module

Quiz in every module

What we learn:

HTML

CSS

Javascript

Diving deep in core JS

Exploring Functional nature of JS

JSX in Depth

MongoDB

Node.js

Databases in Node.js

NoSql databases

File Handling

Building a Full fledge e-commerce application

Socket API

Testing in Node

Requirements:

Dedication

PC with i3 processor and internet connectivity

Instructor:

Name:

Keshav Singh

Description:

Awesome teacher

>Course Introduction:

>>Overview of whole course

>>Roadmap

>>How to make most from this course

>>Prerequisite

>HTML:

>>Introduction to HTML

>>Different types of elements

>>Container elements

>>Handling forms in HTML

>>Diving Deep in HTML

>>DOM

>>Performance and Optimisations

>CSS:

>>Selectors in CSS

>>Diving into Basics

>>Positioning of Elements

>>Understanding Background Images and Simple Images

>>Sizes and Units

>>Applying CSS to our Portfolio website

>>Flexbox

>>Grids in CSS

>>Making our Portfolio website responsive

>>Animations

>>Implementing animations into our Portfolio website

>Javascript:

>>Introduction to JS

>>Types in JS

>>Coercion

>>Diving deep into basics

>>Hoisting

>>Scopes and Closure

>>Lexical Scope

>>Prototypes in JS

>>Async nature of JS

>>How JS controls the webpage

>>Events

>>Event Loop in JS

>>AJAX

>>Different types of interfaces such as File, Blob, FormData, etc

>>Animations using JS

>Diving deep in core JS:

>>Functions

>>Different types of Functions

>>Closures in Deep

>>This binding

>>Objects

>>Synchronous and Asynchronous JS

>>Iterators

>>Generators

>>Promises

>>Async and Await

>Exploring Functional nature of JS:

>>Pure Functions

>>Higher Order Functions

>>Immutability

>>Point free code style

>Introduction To React and Why to use React Today:

>>Why JSX

>>How React Works under the hood

>>Components (Statefull and Stateless component)

>>Conditional Rendering

>>Lifecycle Hooks of Components in React

>>Handling Events and What is synthetic events in react

>>Abstraction Layer of React

>>Handling Forms

>Introduction to some JS new

features:

>>Spread Operator

>>Arrow Function

>>Rest Parameters

>>Higher Order Functions

>>Closures

>>Block Level Scoping(let and const)

>>How to share logic between Components by different methods

>>Render Props

>>Higher Order Components

>>Context Api

>>Hooks (An Introduction to it here)

>>JSX in Depth

>Some More JS new features:

>>Callbacks

>>Promises

>>Async and Await

>>Iterators and Iterables

>>Generators

>>Introduction to Asynchronous tasks and how to handle it in JS world

>>Handling error using promises and Error Boundaries in React

>>State Management in React using Context Api and Redux

>>Diving Deep in Redux and making a loose version of Redux from scratch.

>>Getting Redux Thunk and Redux Saga

>Handling Forms:

>>Validating the form values in synchronous and asynchronous way

>>Displaying Error

>>Routing in React

>>Protecting Routes and redirecting as needed

>>Deep Dive in React Router Library and get our feet wet with it

>>Fragments, Profilers and deep dive in Virtual DOM.

>>Optimizing our React Application

>>Reconciliation algo in react

>>Diving Deep in React Hooks

>>More Optimizing the React Apps using Hooks

>>Code Splitting and making our app more fast

>MongoDB:

>>Understanding the basics and CRUD operations

>>Schemas and Relations

>>Exploring the Shell and the server

>>Understanding the MongoDB compass and setting it for our project

>>Read Operations diving deep

>>Create Operations diving deep

>>Understanding Indexes

>>Understanding Aggregation

>>Handling security

>Node.Js:

>>How Node.js works

>>Request and Response Mechanism in node

>>Redirecting based on some condition

>Introduction to Express:

>>Diving Deep in some Express concepts

>>Express Middlewares and why it is important

>>Building our custom middlewares

>>Understanding some of middlewares such as body-parser and cors and its uses.

>>Introduction to Server Side Validations

>>Express validators and its uses.

>>Writing our custom validator (synchronous and asynchronous)

>>Handling errors while validation

>Introduction to session

management in Node.:

>>How to manage session using cookies and jwt(json web token)

>>Introduction to express-session

>Handling Dynamic Routes in Node:

>>How to fetch Query Parameters and Params in Node

>>Redirection based on url

>>Absolute and Relative path handling using build in Node module

>>Introduction to streams

>>How Node is based on streams and how to work with it

>>Readable and Writable Streams

>>Process and Subprocess in Node

>>Multithreading in Node

>Handling Databases in Node.js:

>>First,Mysql Database

>>Using mysql library we build mysql database

>>Using sequelize library for handling mysql database

>>Introduction to NoSql databases

>>Using Mongodb as a NoSql database

>>Using mongoose package

>>Templating Engines in Node.js

>>Introduction to EJS and handlebars

>>Handling errors and flash messages in this

**>Handling File Uploads in
node.js:**

>>Handling One file upload and then multiple files uploads

>>Using package multer for this.

>>Introduction to socket api and understanding how to real time application

>Testing in Node:

>>Testing in Node

>>Unit Testing in Node