

GAMAKA

Artificial Intelligence Solutions

Office No 309, Paranjape – The Business Hub, Karve Road, Kothrud, Pune - 411038
Email: itplacements@gamakaai.com Cell: 91-7378483656. WhatsApp: 91-7378493293
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Module 7: MEAN STACK

Duration: 60 hours with hands on tutorials

Live Projects & 60 assignments

Note: Angular 7 Included in this module. For detailed syllabus go to Angular 7 session in document or website links

Course Description:

When the MEAN Stack was first announced, JavaScript developers couldn't understand it in detail. MEAN is an acronym for MongoDB, Express.js and Angularjs, all of which function upon Node.js. This is a platform that allows one to build applications using code as little as possible while taking a solid view of all the components that comprises it. Moreover, writing the complete code from client to server using only JavaScript is like a dream come true for beginners who want working apps in a short period of time.

Gamaka AI offers MEAN Stack training course by the leading industry expert trainers and ensures your mastery of full MEAN Stack development. Take your career to the next level by acquiring this MEAN Stack certification program from our institute which proves that you are an expert at JavaScript technologies of the most popular MEAN Stack.

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Introduction to MEAN

- Defining MEAN
- Studying the Architecture of MEAN
- Scope of MEAN
- Benefits of Using MEAN
- Application of MEAN
- The Four Building Components
- An Insight into Mongo DB
- An Insight into Express
- An Insight into Angular.js
- An Insight into Node.js
- Collaboration of the Four technologies
- Outcome and Deployment

Understanding MongoDB and NoSQL

- MongoDB: Overview, Structure, and Application
- Commands: Shell and Native
- Various Models
- Node.js and its application
- What is Node Package Manager
- MongoDB plus node.js
- MongoDB and its connection with shell
- Event Loop and Node.js
- Testing with Mocha
- Package.json: npm run-script
- Mocha tests with gulp
- MongoDB Schema Design
- Schema Design Principles: Store what you query for and Principle of least cardinality
- Retail Application Schema: product, category, and user and car

Getting Started with MongoDB and Node.js

- How to add MongoDB Driver to Node.js
- How to connect to MongoDB from Node.js
- Objects used in the MongoDB Node.js Driver
- How to Access and Manipulate Databases and Collections
- How to Manipulate MongoDB Documents from Node.js
- Database Change Options and Database Update Operators
- Adding Documents to a Collection
- Getting Documents from a Collection
- Updating Documents in a Collection
- Modifying and Saving Documents in a Collection
- Deleting Documents from a Collection
- What is a Data Set
- Query Objects
- Specific Sets of Documents
- Counting Documents
- Limiting, Sorting, and Grouping Result Sets
- MapReduce and Results

Mongoose, Schema and Validation

- What is Mongoose?
- How to connect to MongoDB using Mongoose
- What is a Schema
- How to compile a Model
- Understanding Objects: Query and Document
- How to use Validation Framework
- How to Implement Middleware Functions
- An Insight into Advanced MongoDB Concepts
- Adding Indexes
- Capped Collections, Replication, and Sharding
- How to implement a GridFS Store
- How to repair a MongoDB Database

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- Finding, Adding, Updating, Removing, and Aggregating Documents by using Mongoose

The Collaboration between Express and Node.js

- Overview, Structure, and Installation of Express
- Generating a Web Application using Express
- Matters of Authentication
- Configuring Routes
- Objects: Request and Response
- How to implement a Template Engine
- Functioning of Socket.IO
- Interdependence of Express and Node.js
- Defining REST API
- API: Product, Category, Card APIs
- Integrating Functions
- MongoDB Text Search
- Open Exchange Rates

AngularJS, MongoDB, and Node.js

- Overview of Angular JS
- Application of Angular JS
- AngularJS LifeCycle
- Developing Web Page with AngularJS
- Hello World AngularJS
- AngularJS Modules: Set-Up and Architecture
- Modules and Dependency Injection
- How to Integrate AngularJS with JavaScript and jQuery
- Adding AngularJS to Node.js Environment
- Scopes and Scope Hierarchy
- Broadcasting and Emitting Events
- Templates and views, Expressions and Filters
- Controllers and Filters: Inbuilt Filters and Custom Filters
- Services and Client-side Routing
- Routes and Directives
- Using Built-in Directives
- Creating your own Directives to Extend HTML
- Creating Nested Routes and Application
- Inbuilt Directives and Inbuilt Pipes
- AngularJS Services: Built-in and Custom Services
- CRUD commands in MongoDB
- REST/HTTP requests in a REST API