



Ruby on Rails (ROR) Training Course

Project Based Immersive Learning Course

Course Overview?

Ruby on Rails is an open-source software that simplifies the process of creating modern web applications and web services. Ruby is a dynamic object-oriented programming language, and Rails is a web framework developed using Ruby, hence the name Ruby on Rails. Education Nest provides an online training program on Ruby on Rails that delves into various topics such as MVC architecture, creating projects, generating controllers and views, handling routes, creating links, executing migrations, querying records, and identifying errors in forms. Upon completing this training, you will acquire the skills and knowledge required to design and develop both front-end and back-end websites and solutions using Ruby on Rails.

Benefits of Ruby on Rails(ROR) Training Course :

Ruby on Rails is the best choice for web development as it is ideal for building web applications. Due to its increased demand, the job opportunities for the Ruby on Rails Professionals are increasing with exciting salaries. Ruby on Rails training course offers a comprehensive understanding of the framework, hands-on experience, expert guidance, career opportunities, and

flexibility to learners. The course offers an in-depth understanding of the Model-View-Controller (MVC) architecture, which is a widely used software design pattern for developing user interfaces.

Who should learn:

- Software developers
- Professionals
- Programmers
- Web Designers

Why do you need Ruby on Rails(ROR) Training Course?

Average Salary Growth:

The average salary of a Ruby on Rails developer can vary depending on several factors such as experience level, location, company size, and job responsibilities. However, according to data from Payscale, the average salary of a Ruby on Rails developer in the United States is approximately \$85,000 per year. This can increase to around \$124,000 for more experienced professionals. Additionally, the salary growth for a Ruby on Rails developer can be significant as they gain more experience and take on more responsibilities in their roles.

Industries:

The demand for Ruby on Rails developers varies depending on the location and industry. In general, larger companies tend to have a greater demand for Ruby on Rails developers, as they often have more complex web applications that require the scalability and flexibility of the framework. Some of the top MNCs that have a high demand for Ruby on Rails developers include: Airbnb, GitHub, Shopify, Square, Hulu, Basecamp, Groupon, SoundCloud, Zendesk, Bloomberg.

Position in Market:

According to the United States Bureau of Labor Statistics (BLS), employment of software developers is projected to grow 22 percent from 2019 to 2029. However the employment of web developers, which includes Ruby on Rails developers, is projected to grow 8% from 2020 to 2030, which is faster than the average for all occupations. The increasing popularity of mobile devices and ecommerce are among the factors driving the demand for web developers, and this trend is expected to continue in the coming years.

Designations:

- Ruby on Rails Developer
- Full Stack Developer (Ruby on Rails)
- Web Application Developer (Ruby on Rails)
- Ruby on Rails Engineer
- Front-end Developer (Ruby on Rails)
- Ruby on Rails Consultant
- Ruby on Rails Architect

Why Ruby on Rails (ROR) Training Course from Education Nest

- **Free Demo on Request**
- **Live Interactive Learning**
- **Lifetime Access**
- **Flexible Schedules**
- **24x7 Support**
- **One on One Doubt Clearing**
- **Real Time Project-Based Learning**
- **Certificate Oriented Curriculum**

Key Skills Covered:

- Simple scripts and types
- Ranges, arrays, and hashes
- Control structures
- Creating classes and methods
- Inheritance
- Model-View-Controller (MVC)

- Basics of active records
- Debugging
- AJAX
- Extending Rails

Ruby on Rails (ROR) Training Course Syllabus

Ruby :-

Introduction

- What is Ruby
- Why Ruby
- Ruby Documentation
- Interactive Ruby
- Customizing irb
- Case Study

Simple Scripts

- Creating a Basic Script
- Execution on Linux/WS
- Basic Linux commands
- Making Scripts Executable
- Creating Output
- Taking Input
- Making Comments
- Case Study

Simple Types

- Creating Numbers
- Performing Arithmetic

- Numeric Methods
- Creating Strings
- Interpolation and Escaping
- Common String Methods
- Creating Multiline Strings
- Using Constants
- Dates and Times
- Case Study

Arrays, Ranges and Hashes

- Creating Arrays
- Common Array Methods
- Adding Elements
- Removing Elements
- Array and Strings
- Using Ranges
- Creating a Hash
- Common Hash Methods
- Case Study

Control Structures

- Operators
- Basic Conditionals
- Extended Conditionals
- The Conditional Operator
- Case Statements
- Basic Loops
- Numeric Iterators
- Collection Iterators
- Case Study

Creating Methods

- Simple Methods
- Returning Values
- Taking Arguments
- Default Argument Values
- Using Self
- Variable-Length Arguments
- Methods and Blocks
- Case Study

Creating Classes

- Simple Classes
- Instance Variables
- Using Accessors
- Creating Constructors
- Defining Operators
- Other Special Methods
- Validation and Duck Typing
- Case Study

Inheritance

- Overriding Methods
- Chaining Methods
- Access Control
- Class Variables
- Class Methods
- Case Study

Modules and Includes

- Modules as Namespaces
- Modules as Mixins
- Requiring Files
- Ruby Standard Library
- Case Study

Rails :-

Introduction

- Introduction to Ruby on Rails
- what is Rails

Diving Right In

- A look at a real-world Rails app
- Quick tour of default app
- Overview of environments
- Brief demo of Active Record
- Action Controller
- Action View

MVC (Model View Controller)

- Detailed look at Rails MVC
- Implementation
- Full lifecycle of web request

Fundamental Active Record

- The Active Record Pattern
- Models
- Tables
- Columns
- Attributes
- Create, Read, Update, Delete (CRUD)
- Case Study

Fundamental Action Controller

- Actions
- Controllers
- Routing requests
- Params
- Sessions
- flash messages
- Case Study

Fundamental of Action View

- ERb templates
- layouts
- partials
- views
- components
- helpers
- Case Study

Advanced Active Record features

- Validations
- Associations
- Aggregations

- Accessors
- find_by_*
- overriding defaults
- Case Study

More Action Pack features

- Request filters
- render versus redirect
- caching
- responds_to
- form helpers
- Case Study

Testing

- Testing controllers (functional)
- testing models (unit)
- creating mock objects (fixtures)
- assertions
- rspec, cucumber
- Case Study

Routes

- Routing requests
- Creating patterns
- Error-Handling
- Case Study

Request Filters and Callbacks

- After

- Before
- Around (prepend_around)
- Callbacks
- Case Study

Debugging

- Breakpointer
- Logging
- Script/console
- Case Study

AJAX

- AJAX form requests
- Effects
- Controls and JS helpers
- RJS templates
- Case Study

Action Mailer Basics

- Sending mail
- Processing mail
- Using generator
- Attachments
- Testing mail
- Case Study

Web Services, API, RestAPI

- Using Builder
- RXML

- Generating RSS feed
- Producing
- Consuming Web Service
- Case Study

Extending Rails

- Active Support basics
- Plugins
- Engines
- Ruby libraries
- Case Study

Benchmarking and Performance

- Caching (fragments, partials)
- Eager loading
- Profiling
- Benchmarking
- Case Study

Deployment

- Sample server setups
- Capistrano configuration
- Recipe Creation
- Case Study

Career Support

Profile Building :

Experienced professionals are available to offer tailored assistance in crafting your CV and online profiles, taking into account your unique educational and experiential background.

Interview Preparation :

The upcoming interview preparation service will include personalized one-on-one sessions and the option for mock interviews if needed.

Job Referrals :

At Education Nest, we receive a variety of job requirements from diverse sources such as organizations, our clients, HR consultants, and a vast network of Education Nest currently employed in different companies. We strive to meet these varied requirements to the best of our abilities.

Continuous Support :

We offer continuous support for as much time as you need it, and a considerable number of our learners receive multiple interviews offers and promising employment opportunities as a result of the abilities they gain during the program.