



# TCA

TRAINING & DEVELOPMENT



## FULL STACK

DEVELOPMENT  
TRAINING



**WE MAKE INDUSTRY  
READY  
PROFESSIONALS**

**MENTORTCA TECHNOLOGY PVT. LTD.**

[enquiry@tcaindia.in](mailto:enquiry@tcaindia.in)

[www.tcaindia.in](http://www.tcaindia.in)

## About TCA : Training & Development



TCA: Training & Development is the No.1 Leading Training Company in India committed to cultivate quality manpower for various industries like: IT, ITes, Civil, Mechanical and many more. We provide quality industrial & corporate trainings to bridge the gap between technical Colleges and the Industries. To be a reputed and renowned training institutes, we coach on 150+ courses delivering training and certification to the students as well as corporates.



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## About Full Stack Development

Full Stack Development comprises of multiple domain specializations, which proves extremely beneficial for organizations in many ways. Having full-stack developers as part of their team can help boost the productivity of organizations. In addition, they help enhance the efficiency of the entire team by reducing the turnaround time for various tasks. Full-stack developers are extremely skilled and versatile, impacting the quality of the software solutions they develop. These professionals are proficient in various languages and hence can develop the most appropriate and high-quality solutions to match client needs. A Full Stack Development Team enables businesses to hand-over their projects into diversely skilled professionals' hands which further leads to the successful completion of Highly Scalable & Complex Workflow Applications.

## Full Stack Development Job Roles

Full Stack Developer Job Roles has evolved as one of most appealing and extremely popular field of studies to those who aspire a career in rapidly growing technology sector. Developers require great IT Skill Sets to be part of Full Stack Development Process. It involves multiple tasks like programming, designing, managing data bases, debugging & deploying websites and real-time applications. It requires developers to have specializations in both front-end and back-end technologies. It eliminates the need for companies to hire separate specialists to handle these aspects of web application development individually. The boom in start-up business has also significantly raised the demand for individuals capable of handling multiple technologies which will further impact with huge growth in Full Stack Developer Job Roles.

## Scope of Full Stack Development

With the upsurge in demand of Highly Scalable and Complex Workflow Applications the requirement of broader skill sets among developers is leading to the huge boom in Full Stack Developers requirements day by day. According to a report from LinkedIn, the demand for full-stack developers has been increasing at 35% each year since 2015. Another report from the US Bureau of Labor Statistics states that the number of jobs available for these professionals will increase from approx. 1.35 lakh to over 8.5 lakh by 2024. With the advent of the internet era, companies need to establish a strong online presence to maintain their growth prospects. This has enhanced the scope of the full-stack developer future by making them essential for companies looking to move their business online.

TCA Corporate provides corporate education and custom-content training solutions to some of India's largest private, public, and Government organizations. We serve clients in various sectors such as information technology, financial services, pharmaceuticals, telecommunication, education, professional services. TCA is proud of its ability to assess learning needs, develop and deliver training solutions to support and enhance return on learner's training investments.

TCA envisages strengthening its training base on industry scenario, technology development issues & developing its training capabilities. It further acts as an interface with software companies to promote the exchange of innovations, training methodologies, design on the training curriculum, and monitoring the software industry trends country-wide.

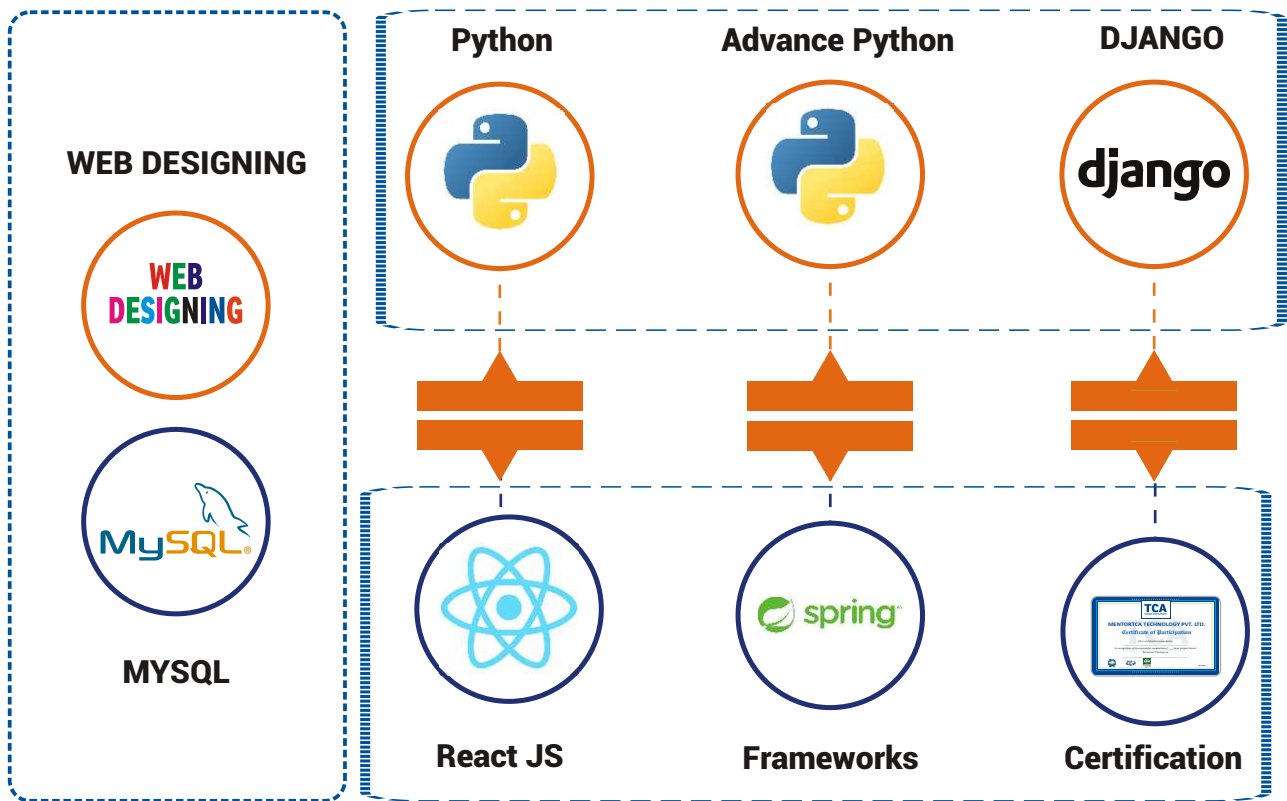
### VISION

To provide a global platform to aspiring students as well as professionals & bolstering their stand on the international spectrum by providing seamless high-quality training. We stop at nothing in delivering the best learning experience possible and strive to provide a higher level of service and support that you can't get elsewhere.

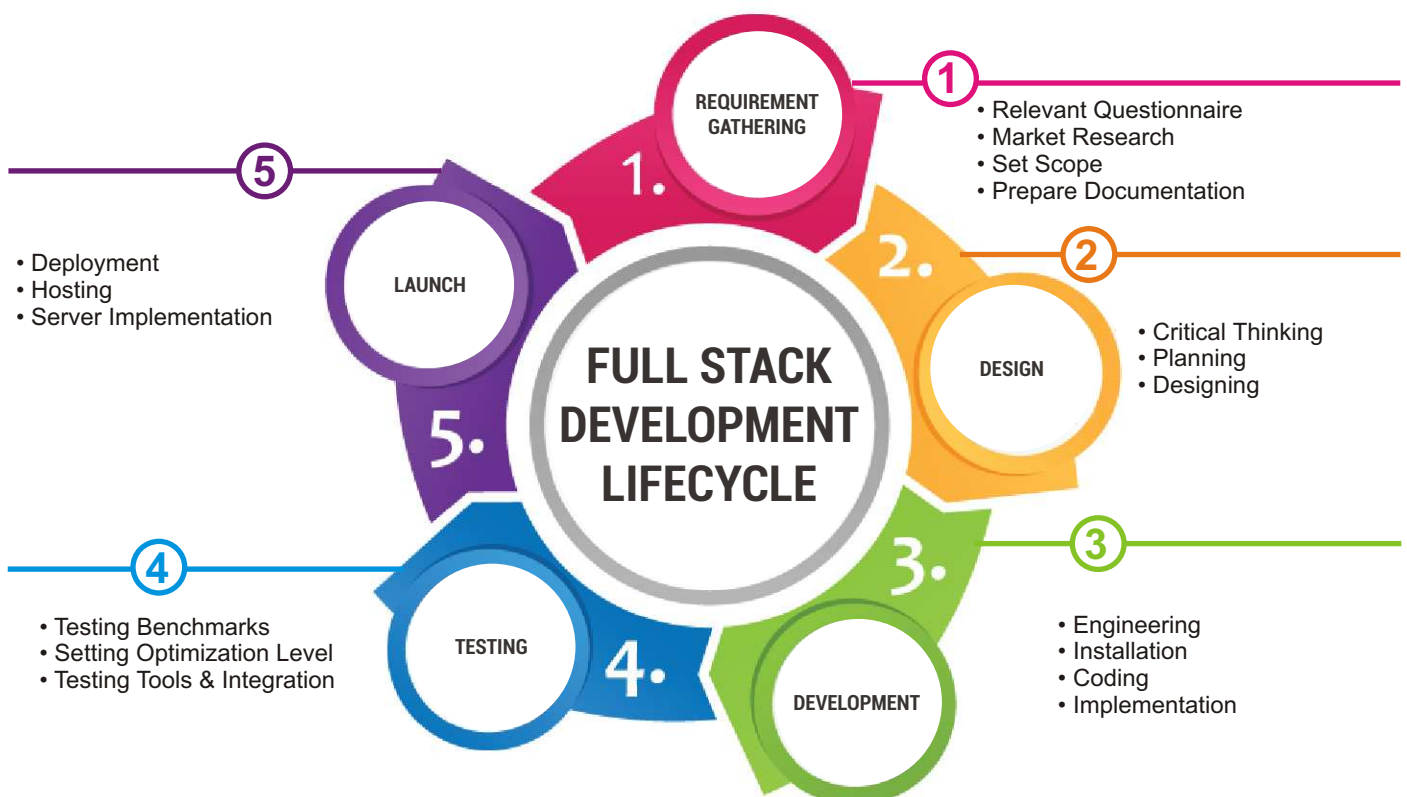
### MISSION

To be globally regarded as a leading organization working towards fulfilling the educational needs of working professionals and students with a touch of excellence! We take pride in setting new benchmarks with you as an integral part and work towards a better tomorrow.

# Full Stack Development Learning Path



## FULL STACK DEVELOPMENT LIFE CYCLE



## Module - I

- ✓ Elements, Attributes, Headings
- ✓ Paragraphs, Formatting, Fonts
- ✓ Styles, Links, Images
- ✓ Tables, Lists, Forms
- ✓ Frames, Iframes, Colors
- ✓ Color Names, Values, Quick List
- ✓ Layout Doctypes, Head, Meta
- ✓ Scripts, Entities, URL Encode
- ✓ Media, Audio, Object, Video

## HTML & HTML 5

- ✓ HTML5 Introduction
- ✓ HTML5 New Elements
- ✓ Video/DOM, Audio
- ✓ HTML5 Drag and Drop
- ✓ Canvas vs SVG
- ✓ HTML5 Geolocation
- ✓ Web Storage, App Cache
- ✓ HTML5 Web Workers
- ✓ SSE, Tags

## Module - II

- ✓ Intro, Syntax, Id, Class, Styling
- ✓ Background, Text, Fonts
- ✓ Links, Lists, Tables
- ✓ Box Model, Border
- ✓ Outline, Margin
- ✓ Padding, Advanced

## CSS

- ✓ Grouping, Dimension
- ✓ Display, Align , Navigation Bar
- ✓ Image Gallery, Opacity
- ✓ Image Sprites
- ✓ Media Types, Hacking
- ✓ Summary

## Module - III

- ✓ Overview, Variables, Data Types
- ✓ Operators, Functions, Objects,
- ✓ Array, Boolean, Date, Math
- ✓ Conditional Statements, Number
- ✓ String, RegExp, Global
- ✓ Browser Objects, Window
- ✓ Navigator, Screen, History,
- ✓ Core JS Objects, JS Forms,
- ✓ Forms API, JS Functions,
- ✓ JS Browser, JS AJAX, JS JSON,
- ✓ Node, Named NodeMap,

## Java Script

- ✓ Document, Attribute, Events
- ✓ Elements, Anchor, Area
- ✓ Base, Body, Button, Form
- ✓ Frame, IFrame, Frame Set, Image
- ✓ Input Button, Input CheckBox,
- ✓ Input File, Input Hidden
- ✓ Input Password, Input Radio,
- ✓ Input Reset, Input Submit
- ✓ Text, Link, Meta, Object,
- ✓ Option, Select, Style, Table

## Module - IV

## Boot Strap & Jquery

### BOOT STRAP

- ✓ Grid Basic, Well, Images
- ✓ Alerts, Buttons Badges/Labels
- ✓ Progress, Bars, Pagination, Pager
- ✓ DropDown, Collapse Navbar
- ✓ Modal / Forms, Carousel
- ✓ ToolTips, ScrollSpy
- ✓ Templates , Templates

### JQUERY

- ✓ Jquery Syntax, Selector, Event, Functions,
- ✓ Jquery SlideUp, SlideDown
- ✓ Jquery Fade in / Fade Out, Animation,
- ✓ Chaining, Add HTM, Set HTM, CSS
- ✓ Add & Remove Class, Jquery Ajax,
- ✓ Working with website, Jquery Slider
- ✓ Jquery Animated Popup, Scrolling Web Page

## Module - V

## Web Hosting & Wordpress

### WEB HOSTING

- ✓ Introduction to Web Hosting
- ✓ Domain Registration
- ✓ Publishing Website
- ✓ Managing Control Panel
- ✓ Managing Web Server
- ✓ Understanding DNS
- ✓ Types of Web Hosting
- ✓ Email configuration
- ✓ Indexing Domain to Google
- ✓ Renewals Process
- ✓ SSL & Privacy Protection
- ✓ Dedicated Hosting
- ✓ Shared Hosting
- ✓ VPS Hosting

### WORDPRESS

- ✓ WordPress Introduction
- ✓ Installation & Confirmation
- ✓ Working with Themes
- ✓ Configure Theme Customizer
- ✓ Building Custom Themes
- ✓ Building Websites Using WordPress

## Module - VI

## MySQL

- ✓ MYSQL – INTRODUCTION
- ✓ What is a Database?
- ✓ RDBMS Terminology
- ✓ What is DBMS?
- ✓ MySQL Database Installation
- ✓ DDL-Data Defination Language
- ✓ Where Clause
- ✓ Order By Clause
- ✓ GRANT / REVOKE
- ✓ SELECT/ JOIN
- ✓ Self Join / Cross Join
- ✓ DCL-Data Controlling
- ✓ Create / Alter / View / Drop / Truncate
- ✓ DML-Data Manipulation Language
- ✓ Inner Join / Left Join / Right Join
- ✓ Insert / Update / Delete
- ✓ DQL-Data Query Language

## Module - I

## ReactJS Fundamental

- ✓ Introduction to ReactJS
- ✓ Environment Setup
- ✓ Key Features
- ✓ React Installation
- ✓ ReactJS vs AngularJS
- ✓ ReactJS vs ReactNative
- ✓ React State & Props
- ✓ React Components
- ✓ React Components API
- ✓ Components API
- ✓ JSX vs TSX
- ✓ Functions & Class Components
- ✓ Event Handling
- ✓ Functions & Constructor
- ✓ Dynamic Data Rendering
- ✓ Property Binding
- ✓ Conditional Rendering
- ✓ Lists & Keys
- ✓ Form Handling
- ✓ Form Validation

## Module - II

## ReactJS Advance

- ✓ Refs in React
- ✓ Fragments
- ✓ CSS & Animation
- ✓ Bootstrap & Contexts
- ✓ Table & Map
- ✓ Custom Services
- ✓ React Storage Concepts
- ✓ Local Storage
- ✓ State Management
- ✓ Session & Cookies
- ✓ Routing Concepts
- ✓ Route Components
- ✓ Nested Routes
- ✓ UI Components
- ✓ Flux vs MVC

## Module - III

## Third Party Tools

- ✓ Introduction to Redux
- ✓ Redux Setup
- ✓ Store & Reducer
- ✓ Actions & Dispatcher
- ✓ High Order Components
- ✓ Advanced Redux
- ✓ Async Actions
- ✓ Middleware
- ✓ Redux Thunk
- ✓ Redux Saga
- ✓ Hooks in React
- ✓ Custom Hooks
- ✓ Hooks Rules
- ✓ Social Login
- ✓ React Pagination
- ✓ Search & Filter
- ✓ CRUD Example

## Module - I

## Core Python

### PYTHON INTRODUCTION

- ✓ Introduction to Python
- ✓ Python Fundamentals
- ✓ Application of Python
- ✓ Variables & Data Types
- ✓ Operators & Constructs
- ✓ Functions & Constructor

### OOPS CONCEPTS

- ✓ Class
- ✓ Object Theory
- ✓ Abstraction
- ✓ Encapsulation
- ✓ Inheritance
- ✓ Polymorphism

### ADVANCED CONCEPTS

- ✓ File Handling
- ✓ Exception Handling
- ✓ Multi Threading
- ✓ Modules

## Module - I

## Advance Python

- ✓ List
- ✓ Dictionary
- ✓ Tuple
- ✓ Sets
- ✓ Regular Expression

- ✓ Web Scrapping
- ✓ JSON
- ✓ GUI Programming
- ✓ Mysql Introduction
- ✓ Database Connectivity

- ✓ Network Programming
- ✓ Lamda Expressions
- ✓ Collections
- ✓ Tkinter
- ✓ API

## Module - I

## Python Frameworks

### DJANGO

- ✓ Introduction to Django
- ✓ Installation
- ✓ Overview
- ✓ Basic UI Elements
- ✓ Virtual Environment
- ✓ Starting Django Project
- ✓ Overview and creating App
- ✓ Views

- ✓ URL Mapping/ URL Dispatcher
- ✓ Regular expression
- ✓ Error/Exception Handling
- ✓ Decorators
- ✓ Templates
- ✓ Django Template language
- ✓ Filters
- ✓ Models

- ✓ Fields
- ✓ Queries [with Filters]
- ✓ Migrations
- ✓ Forms
- ✓ Validations
- ✓ Fields & Widgets
- ✓ Authentication
- ✓ Administration
- ✓ Overview of REST API

# A JOURNEY OF TRAINING TO JOB

**TCA**  
TRAINING & DEVELOPMENT

**WE MAKE LEADERS OF TOMORROW**



## OUR SUCCESS STORIES



**SONAM**

ACCOUNT  
(WINNTUS GROUP)



**PAWAN KUMAR**

DATA ANALYST  
(MY WAY ENERGY PVT. LTD.)



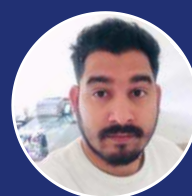
**POOJA BISNOI**

SAP EXPERT  
(SKY JUMPER)



**GAURAV**

FULL STACK  
(DEVELOPER CIVIL PUNE)



**SANJEEV KUMAR**

DESIGN ENGINEER  
(DELHI BRASS LIGHTING PVT. LTD.)



**RAVI RANJAN**

DATA ANALYST  
(G.R. INFRAPROJECTS LTD.)



**SUSHMA**

ACCOUNTANT CUM HR  
(SKGP MOUNT DEVELOPERS &  
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**SATYAM SRIVASTAV**

DATA SCIENTIST  
(NETWEST GROUP)



**TANNU VATS**

JAVA DEVELOPER  
(TECHNOKING INFOTECH  
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**SHIVANI**

WEB DEVELOPER  
(TRANCISCOLABS PVT. LTD.)

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# KEY HIGHLIGHTS

# TCA

TRAINING & DEVELOPMENT



**LIVE PROJECTS**  
exposures to work on  
real time projects



**EXPERT TRAINERS**  
learn from certified &  
experienced trainers



**HANDS ON TRAINING**  
100% practical based  
training model



**MEMBERSHIP**  
Get 3 years Free  
membership



**TRAINING MODE**  
Online & Offline  
Both Mode Available



**SMALL BATCH SIZE**  
customized batch size  
available



**FLEXIBLE TIMING**  
Convenient batch times  
available for corporate  
as well as students



**24X7 Technical Support**  
award winning technical  
support team to answer your  
query 24x7 hours



**Affordable Fees**  
courses are available  
at reasonable cost



**JOB Oriented Training**  
industry endorsed  
curriculum to make  
job ready professionals



**Globally Recognized  
Certificates**  
our certificates are  
valued by top corporates



**100% Placement  
Assistance**  
opportunity to get  
placed in top MNCs

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## GURGAON OFFICE



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