About QuickXpert Infotech

Empowering Careers Since 2014

QuickXpert Infotech is a leading IT training institute for Job-Focused courses with Industry-relevant skills & our 100% Proven Placement Framework, helping students build successful IT careers. Since 2014, we have trained thousands of students and prepared them for real-world jobs with hands-on learning, live projects, AI-powered tools, internships, and end-to-end placement support.

Whether you're a student, graduate, working professional, or career changer, our courses are designed to help you gain the skills companies are looking for.

Why Choose QuickXpert Infotech?

- 10+ Years of Excellence
- 100% Practical & Job-Oriented Training
- AI-Integrated Courses
- Classroom, Online & Hybrid Learning
- Live Projects & Internship Opportunities

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- Industry Expert Trainers & Professional Guidance
- Resume Building & Interview Preparation
- 1000+ Hiring Companies Network
- Dedicated Team & Early Placement Initiation
- Proven Placement Framework
- Industry-Recognized Certification
- Reasonable Fees
- Free Demo Session & more

Our Popular Courses

- Full Stack Development
- Data Science & Data Analytics
- Cyber Security
- Software Testing
- Cloud Computing
- Artificial Intelligence (AI)
- Digital Marketing
- Database Technologies
- & more

About our AI-Powered Adv. Python Full Stack Development Training with React

Start Your Career in Python Full Stack Development

Python Full Stack Development is one of the most in-demand career paths in the IT industry. Full Stack Developers build complete web applications by working on both the front-end (user interface) and back-end (server,

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database, and APIs). With Python powering the backend and modern front-end technologies, companies are actively hiring skilled Full Stack Developers for startups, product-based companies, and multinational organizations.

At QuickXpert Infotech, you'll learn Python Full Stack Development through practical training, live projects, coding assignments, and real-world applications to become job-ready.

What You'll Learn

- HTML5, CSS3 & Bootstrap
- JavaScript & ES6
- React.js
- Python Programming
- Django Framework
- REST API Development
- MySQL Database
- Git & GitHub
- Deployment & Hosting
- Authentication & Security
- AI Tools for Developers
- Live Full Stack Projects

Who Can Join?

- Students after 12th
- Graduates & Freshers
- Working Professionals
- Job Seekers
- Software Developers
- Career Switchers
- Anyone interested in building a career in Full Stack Development

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Career Opportunities

- Python Full Stack Developer
- Python Developer
- Django Developer
- Backend Developer
- Front-End Developer
- Web Application Developer
- Software Engineer
- Full Stack Engineer
- API Developer
- Freelancer / Software Consultant
- & more

Certifications & Recognitions

Learn from industry experts, work on live projects, earn a recognized certificate, and get placement assistance to kick-start your career.

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TOOLS COVERED

PYTHON

- Python
- VS Code
- PyCharm
- Jupyter Notebook
- NumPy
- pandas
- MySQL
- Matplotlib
- SQLite
- pip (Package Installer)
- requests
- BeautifulSoup
- openpyxl (Excel Library)
- smtplib (Email Module)
- JSON
- Postman
- API (REST)
- django
- Flask
- Git

and many more

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Syllabus

MYSQL

Learn both MySQL & Adv. MySQL

- Asked in most interviews

Basics & Installations

- MySQL Server
- Workbench (client)

DDL - Data Definition Language

- Tables - Create, Alter, Drop, Auto Increment
- Constraints - Not Null, Primary Key, Unique Key, Foreign Key
- Index - Why required, Create, Drop

DML - Data Manipulation Language

- Insert, Update, Delete & Truncate

Transactions

  - Commit & Rollback

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DQL - Data Query Language (Select)

- Filters
    - Operators - <, <=, >, >=, =, !=
    - BETWEEN
    - IN
    - LIK
    - NOT
    - NULL
    - AND, OR, NOT
    - Multi conditions filtering
    - DISTINCT
    - Limit, offset
- Sorting
    - Ascending Order
    - Descending Order
    - Multi Column Sorting
- Functions
    - Data, number, characters, null values etc.
    - Case
- Groups
    - Grouping functions - AVG, MIN, MAX, COUNT, DISTINCT COUNT
    - Grouping Filters - HAVING
- Joins
    - Cartesian Product
    - Equi and Non-Equi Joins

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  - Left Outer Join
  - Right Outer Join
  - Full Outer Join
  - Self Join
- SET Operators
  - Union, Union All, Intersect, Minus
- Subquery
  - Single Valued
  - Multi Valued
- Views & Inline Views
- Window Functions
  - Rank, Dense Rank & Row Number
- CTE (Common Table Expressions)
- Procedures
  - Programming basics - if..else, for loop
  - Procedures - create, drop
- Functions - create, drop
- Triggers - create, drop
- Project

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Web Designing (Frontend Development)

Learn HTML & HTML5, CSS & CSS 3, Media Query, Javascript, Jquery, Twitter Bootstrap Framework, Responsive Website Designing & more

Web Designing Overview

- About Responsive Website Designing
- VS Code Installation

HTML

- HTML Overview
- HTML Tags – Table, Div, Paragraph, Formatting, Anchor, Quotations, Marquee, Image & more
- Meta tags – Title, Description, H1, H2, H3 & more
- Lists
- Creating Forms
- Layouts
- Classes and ID

HTML 5

- Section, Article, Source, Header, Video, Audio, Canvas & more
- HTML 5 Validations

CSS & CSS3

- CSS Basics & Overview

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- Background Image & Colors
- Selectors
- Declaration & Types
- Fonts & Text Properties
- Text Shadow, Gradients etc.
- Overflow & Display Properties etc.
- Effects - Border Raidus, Box Shadow etc
- Box Model - Border, Margin etc
- Units in css
- Positions - Static, Absolute, Relative, Fixed, Sticky etc
- Transforms - 2d & 3d Effects
- Transitions - Color Effects
- Animations
- Menu & Navigation Bar
- Chrome's Inspect Element for Desktop & Mobile for Runtime CSS Manipulations

Media Query

- Responsive website designing using media queries
- Creating CSS Media Query Files
- Device Width wise CSS Programming

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JavaScript

- Basics
- Variables, Operators, Data Types etc
- Programming Constructs
    - If-else
    - Switch Case
    - While & Do While
    - For – Loops etc.
- Logic Building Sessions
- Creating Functions
- Types of functions
    - Function Expression
    - anonymous function
    - Arrow Function(es6)
- Inbuilt Functions
    - Date – getDate, getDay, getHours, getMinutes, getSeconds, etc
    - String – toUpperCase, toLowerCase, includes, slice, split, etc
    - Numeric – round, floor, ceil, random, PI, etc
- Arrays
    - 1D & 2D Arrays
- Array Methods
    - Push, pop, slice, splice, includes, etc
- Advanced Array Methods
    - forEach, map, filter, reduce
- Objects
- Event Handling

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    - OnClick, OnKeyup, OnChange, OnKeypress, OnKeydown etc.
- Regular Expressions
    - Delimiters, Literal Characters, test, match, etc.
- HTML DOM (Working with Frontend)
    - getElementById
    - getElementsByClassName
    - querySelector
    - querySelectorAll
    - document.write etc
- Js Form Validations
- JavaScript dialog boxes
    - Alert Box, Prompt, Confirm etc

jQuery

- Basics
- Effects
- DOM Parsing
- Form Validations
- Events
- functions
- Creating Images
- Inbuilt Functions
    - Redirect, html, text, find, siblings, parents, etc.
- Dynamic CSS Programming
- Hide / show element
- & more

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Bootstrap

- Basics & Introduction to Responsive Website Designing
- Grid System
- Card
- Bootstrap Elements & Classes - Table, Text, Image, Buttons & more
- Creating Dropdown, Loader, Progressbar & more
- Breadcrumbs
- Pagination
- List
- Panel
- Media Object
- Font Awesome & Glyph Icons
- Forms
- Menus & Navigation Bar
- Carousel
- Tooltip
- Pop Hover
- Scroll Spy
- Affix
- Modals – (Pop ups)
- Creating Responsive Websites in Bootstrap
- Project

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Python Programming

Introduction

- What is Python? Features & uses
- Python installation & IDE setup (VS Code, PyCharm, Jupyter)
- Running Python programs (script mode vs interactive mode)
- Writing First program

Basics

- Variables & Data Types (int, float, str, bool)
- Input/Output functions (print(), input())
- Comments & indentation
- Type conversion & type() function

Operators

- Arithmetic operators (+, -, *, /, //, %, **)
- Comparison operators (==, !=, <, >, <=, >=)
- Logical operators (and, or, not)
- Assignment operators (+=, -=, etc.)
- Identity operators (is, is not)
- Membership operators (in, not in)

Control Flow

- if, elif, else statements
- Nested conditions

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- for and while loops
- break, continue, pass

Data Structures

- Strings → indexing, slicing, methods
- Lists → create, access, update, iterate, list methods
- Tuples → immutable collections
- Sets → unique values, set operations (union, intersection)
- Dictionaries → key-value pairs, methods

Functions

- Defining & calling functions
- Function arguments (positional, keyword, default, variable-length *args, **kwargs)
- Return values
- Lambda (anonymous functions)
- Scope (local vs global variables)

Modules & Packages

- Importing built-in modules (math, random, datetime, os)\
- Creating your own modules
- Installing external libraries with pip

File Handling

- Opening & closing files

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- Reading & writing (read(), write(), with open)
- Working with CSV and JSON files

Exception Handling

- try, except blocks
- finally, else in exceptions
- Raising exceptions (raise)
- Custom exceptions

Object-Oriented Programming (OOP)

- Classes & objects
- Constructors (__init__)
- Instance & class variables
- Methods (instance, class, static)
- Inheritance (single, multiple, multilevel)
- Method overriding
- Encapsulation & Abstraction
- Polymorphism
- Special methods (__str__, __len__, etc.)

Advanced Python Concepts

- Iterators & Generators (iter(), next(), yield)
- Decorators (function decorators, @staticmethod, @classmethod)
- Regular Expressions (re module)
- Project

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Python Analytics

Working with APIs

- Sending HTTP requests with requests
- JSON handling

Database (MySQL) Connectivity

- MySQL Installation
- CRUD Operations (create, read, insert, update, delete)
- MySQL with connectors

Python for Automation

- Automating tasks (file renaming, web scraping with BeautifulSoup)
- Working with Excel (openpyxl, pandas)

Python for Data Science

- NumPy → arrays, vectorized operations
- Pandas → DataFrames, Series, CSV/Excel handling

Python for Data Visualization

- Installing Matplotlib (pip install matplotlib)
- Basic Plots: Line chart, Bar chart, Pie chart
- Statistical Plots: Histogram, Scatter plot, Box plot

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Django Framework

Basics

- Introduction to Django & MVT (Model-View-Template) Architecture
- Installing Django & Setting up Virtual Environment
- Django Project vs Django App
- Django Project Structure in depth
- Running first Django Project (manage.py runserver)

MVT Application

- Models (ORM, Field types, Relationships – OneToOne, ManyToOne, ManyToMany)
- Views (Function-based views, Class-based views, Mixins)
- Templates (Template tags, Filters, Template Inheritance, Static files, Media files)
- Forms (Django forms, ModelForms, Validation)
- Sessions & Session management in Django
- Cookies & Using cookies securely

Database & ORM

- ORM basics
- CRUD Operations with ORM
- QuerySet methods (filter, exclude, annotate, aggregate)
- Transactions & Raw SQL queries in Django
- Database migrations with makemigrations & migrate

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Authentication & Authorization

- Django User Model (AbstractUser & AbstractBaseUser)
- User Registration & Login System
- Password Hashing, Reset & Change Password
- Permissions & Groups
- Social Authentication (GitHub using django-allauth)

Advanced Features

- Middleware (custom middleware)
- Context Processors
- File Uploads & Image Handling (Pillow)
- Email sending with Django (SMTP, Gmail integration
- AJAX & JSON Integration
- AJAX with Django views
- JSON response handling

API Development & Testing using Postman

- Understanding API
- Creating Get, Post etc APIs in Python
- Postman Installation
- API Testing in Postman
- Understanding and Consuming JSON Response

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JWT + REST Framework (DRF)

- Introduction to REST API
- Serializers & ModelSerializers
- Class-based API Views
- ViewSets & Routers
- JWT Authentication
- Consuming API in Django + Postman testing

Bootstrap Integration

Project

React.js

- Introduction
- Installing Nodejs & React
- Vs Code setup & Configuration
- Creating React App
- Folder Structure
- JSX Syntax
- Creating Components
- Event Handeling
    - On Click
    - On keyup
    - On change
    - On keypress
    - On keydown, etc.

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- Adding CSS
- Adding Bootstrap
- Props(Properties)
- Router
- Hooks
    - useState
    - useEffect
    - useParam
    - useLocation etc.
- Working with Forms
- Rest API with React
- React with PHP Backend
- CRUD Operations
- Redux
- AXIOS
- Taiwind CSS
- React.js Integration with Spring Boot using RestAPI
- Project

Next.js (addon)

- Pre-requisite: React. Duration 3 weeks to 1 month extra
- Introduction
    - What is Next.js?
    - Next.js vs React
    - What is SSR in Next.js?
    - Core Features

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  - Pre-Rendering (SSG vs SSR overview)
- Installation & Project Setup
  - Install Node.js
  - Install Next.js
  - Starting Next.js Server
  - Folder Structure
- Routing
- Data Fetching & Rendering
- Functions & APIs
  - NextRequest
  - NextResponse
  - API Routes
- Metadata & SEO
  - generateMetadata() & generateImageMetadata
- Image Imports & Optimization
- Database Integration With MongDB & Perform CRUD Operations
- Styling Support
- Project

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Git & GitHub

- What is Git?
- What is GitHub?
- Difference between Git and GitHub
- Local Repository vs Remote Repository
- Initializing a Git project (git init)
- Cloning a repository (git clone)
- Staging changes (git add)
- Commit changes (git commit -m)
- Push code to GitHub (git push)
- Pull latest code (git pull)

AI Tools & Prompt Engineering

- Popular AI Tools & AI Assistants
    - ChatGPT
    - Gemini
    - Claude
    - Perplexity
    - Free vs Paid AI Tools
    - Choosing the Right Tool
- Prompt Engineering Fundamentals
    - What is Prompt Engineering?
    - Components of a Good Prompt
    - Basic Prompting
    - Role-Based Prompting
    - Common Prompt Mistakes
- Improving AI Output Quality
- AI for Technical Tasks

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Duration

- 8.5 months (with early completion option in 5-6 months)
- Addon Next.js available

more info - https://quickxpertinfotech.com/python-full-stack-developer-course

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Committed to Infotech
etc.

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Our 5 Steps Process for Success

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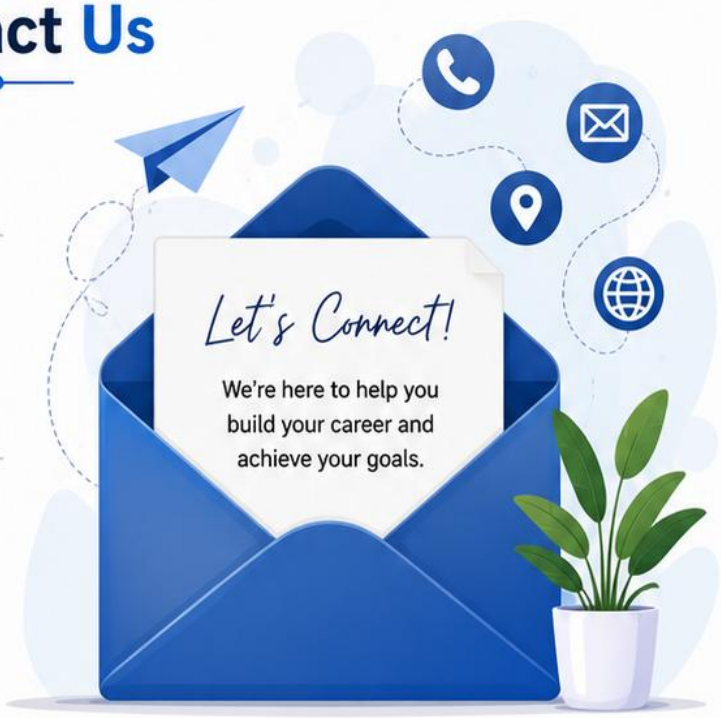

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