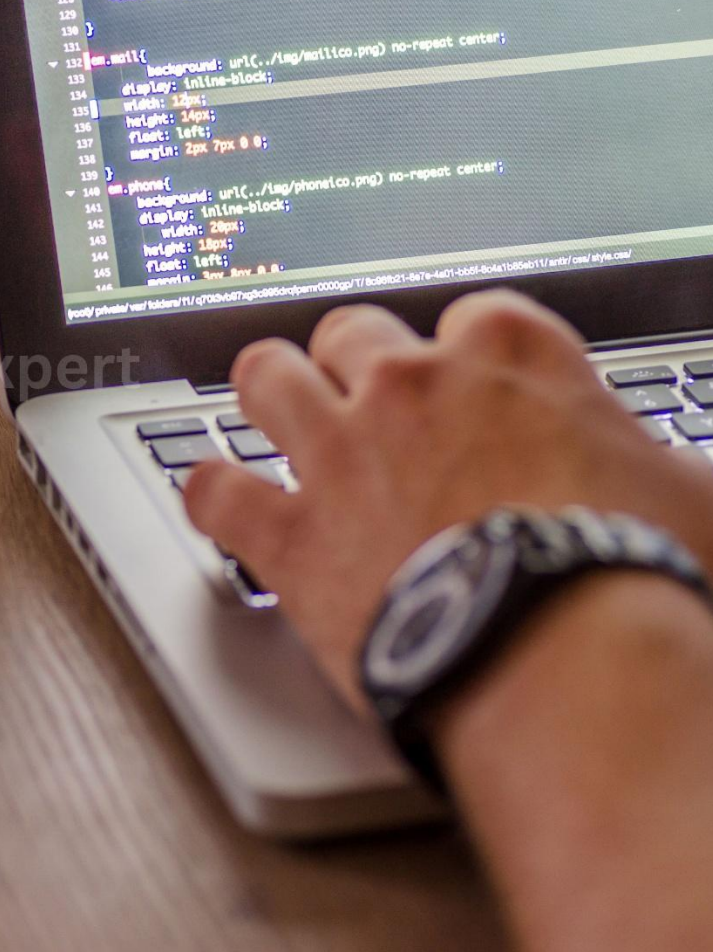


Python Full Stack Developer Course



About QuickXpert Infotech

Best institute for IT training and placements for classroom and online training for students and corporates. We are an ISO certified institute and in the industry since 2014. Our strong training and placement team have helped thousands of students build their career.

Courses - JAVA, Dot Net, Software Testing, Web Development, Full Stack Development, MERN, MEAN, Oracle, Digital Marketing, Python, Data Analytics, Data Science & A.I., Cyber Security, Salesforce, Service Now, Tableau, Power BI, Excel, React, Angular etc.

Live Projects - MarriageKing, theVibrantBirdie, CRM etc

Corporate Trainings - GeBBS Healthcare, NVest Solutions, Infogix, PDG Software, GMV India etc.

Syllabus mentioned below.

Tools You Learn



Bootstrap



quickxpert



NumPy



pandas



matplotlib



& more ...

Python

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

- 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

- 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

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)
- Sending emails with Python (smtplib)
- 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

Web Designing

Learn

- HTML & HTML5
- CSS & CSS 3
- Media Query
- Javascript
- JQuery
- Twitter Bootstrap Framework
- Responsive Website Designing
- On Page SEO Techniques
- PHP Static Websites

Web Design Overview

- About Responsive Website Designing
- VS Code Installation

HTML

- Table
- Types of Lists
- Forms
- Head tag & Meta tag
- Layout
- Classes and ID
- Div Tags

- Paragraph Tag
- Formatting Tags
- Anchor Tag
- Quotations Tags
- Marquee Tag
- Image Tag

HTML5

- Section Tag
- Article Tag
- Source
- Header
- Video
- Audio
- Keygen
- Canvas

HTML 5 Validations

On-page SEO Techniques

- Meta Tags - Title, Description, tags etc.
- Header Tags - H1, H2, H3, H4, H5 etc.

CSS & CSS3

- Basics
- Background Image & Colors
- Selectors
- Declaration & Types
- Fonts & Text Properties
- Text Shadow, Gradients etc.
- Overflow & Display Properties etc.
- Effects - Border Radius, 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

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

JavaScript

- Basics
- Variables, Operators, Data Types etc
- Programming
 - If-else
 - Switch Case
 - While & Do While
 - For – Loops etc.
- Logic Building Sessions
- Creating Functions
- Inbuilt Functions
 - Date, Number
 - String
 - Numeric
- Arrays
 - 1D Array
 - 2D & Multi-Dimensional Array
- Methods
- Objects
- Event Handling
 - On Click
 - On Keyup
 - On Change
 - On Keypress
 - On Keydown etc.

- Regular Expressions
- HTML DOM (Working with Frontend)
 - getElementById
 - getElementsByClassName
 - document.write etc
- Js Form Validations
- 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 and show element etc

Bootstrap

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

Project

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

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

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

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

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
 - 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
- Procedures
 - Programming basics - if..else, for loop
 - Procedures - create, drop
- Functions - create, drop
- Triggers - create, drop
- Project

Duration

- Weekdays (MTTF, Wed is off/practice break)
 - Option 1 – 6 months - 1.5 to 2 hrs/day
 - Option 2 – 4 months – 2 to 2.5 hrs/day
- Weekends (S S)
 - Option 1 – 6 to 7 months - 2 to 2.5 hrs/day
 - Option 2 – 4.5 months - 2.5 to 3 hrs/day

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

Note - Addons React and / or Angular available

Our Recruiters (1000+ Companies)



etc.

Our 5 Steps Process for Success



Contact Us

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Website - <https://quickxpertinfotech.com>



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