



UnCodemy

# PYTHON Full Stack Development



Job Guarantee program

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## ABOUT US

Uncodemy is one among a couple of driving organizations / in Delhi, Noida, NCR, India that give undeniable preparation in Data Science, Machine learning, Python programming, Tableau, - Deep Learning, and Artificial Intelligence. We at the collegetarget producing quality experts who can withstand the developing contest and rising intricacies in the innovative world. We are growing and leading the company of Delhi, Noida, NCR, India.

## THE UNCODEMY

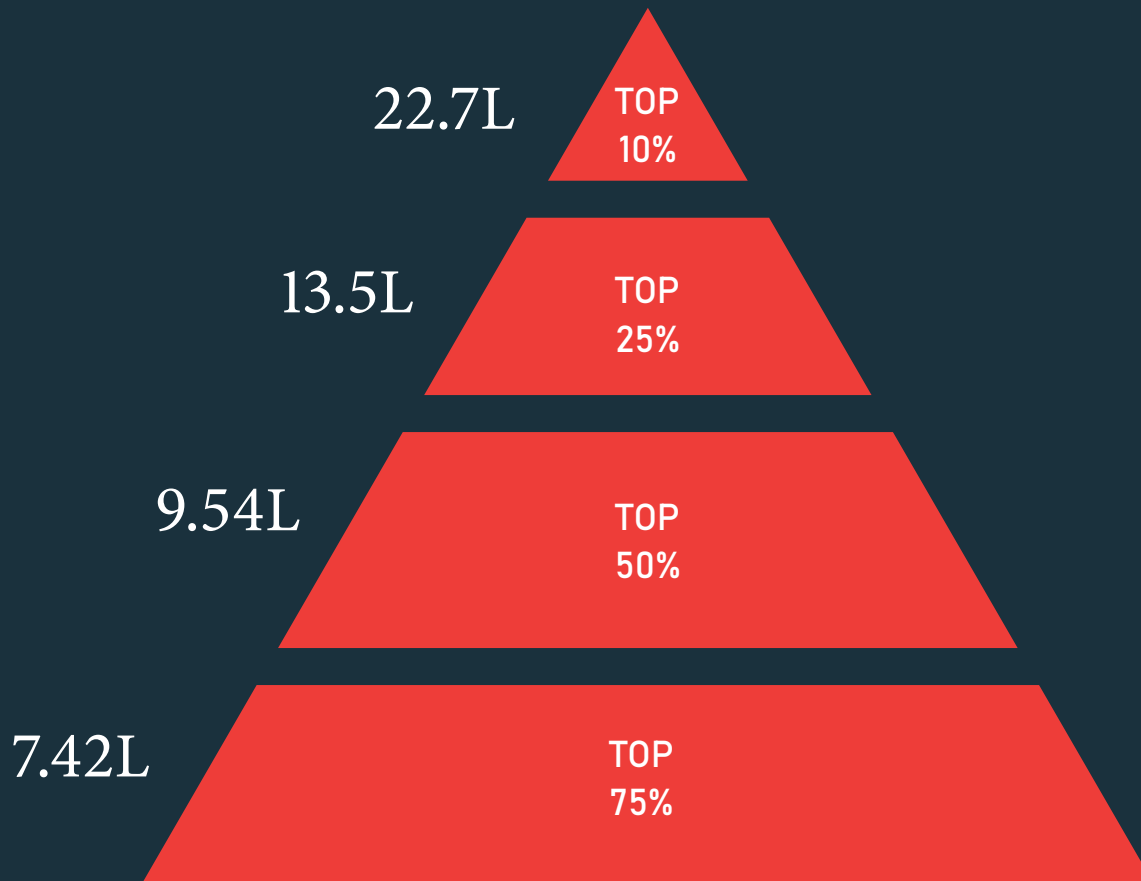
Is an Educational and Professional improvement Organization that has been established to propel the product and IT calling by advancing and perceiving demonstrable skill through training, counselling, gatherings and accreditation. Our Professional Dedicated Team guarantees to give you the best of specialization courses under disciplines like Data Science Machine Learning, Data Mining, Tableau, Text Mining, ReactJS, NodeJS, Angular, Python Programming, Deep Learning, and Java, network protection, programming testing, Cloud Technology, Digital advertising and a lot more with an emphasis on trustworthiness and on the web and Offline learning. We're attempting to transform our enthusiasm for IT Software Training Platform into a thriving position and occupation situated in the preparing stage without any hesitation at work.

**Our aim is simple: We strive to create high-impact, hands-on experiences that prepare learners for meaningful and productive careers.**

**Warm Regards,  
Founder Uncodemy**

## CAREERS IN PYTHON FULL STACK DEVELOPMENT

### SALARY PACKAGE



The results of a Python Full Stack Development job tracked a database engineers to review so they can fix the defect. There are times when the position can seem monotonous, but the focus of your work will constantly change to different aspects of the program, alleviating some of the repetition. You also get an early look at the latest in technology and have a hand in making sure that a program is as defect free as possible. Finally, with Development being an area that will always grow, Development have one of the most secure jobs in the tech industry.

# Why Should You Choose UnCodemy?

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## Top MNCs

UnCodemy partners with top-tier companies to ensure that its students receive instruction from industry experts with hands-on experience in the field of Python Full Stack Development.



## No. 1 Institute for the Python Full Stack Development

UnCodemy in Noida stands out as the premier data science course provider, featuring industry-experienced mentors from major corporations. With a commitment to 100% placements, it offers live project experiences, flexible online & offline training modes, and accelerated certification options catering to working professionals.



## About Courses

UnCodemy follows a structured approach and comprehensive curriculum. Here are some key reasons why learning Python Full Stack from a training program can be beneficial:

1. Access to experienced instructors who can provide personalized guidance and support.
2. Exposure to industry-relevant tools and technologies.
3. Hands-on experience with real-world datasets and projects.
4. Networking opportunities with other students and professionals in the field.
5. A structured curriculum that covers the key concepts and skills needed to succeed in Python Full Stack Development.
6. Access to job placement assistance and career counseling.

## About Industry Expert Trainers



Uncodemy partners with seasoned industry professionals to provide students with first-hand knowledge and real-world applications in the realm of Python Full stack Development. These experienced instructors share their practical insights, equipping students not only with theoretical knowledge but also with the practical skills needed to succeed in the field.

## About Certificate



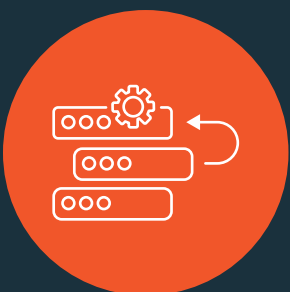
Uncodemy is recognized by top industry bodies such as ISO and NASSCOM and is also endorsed by Skill India, a government initiative aimed at boosting skills development in the country. The certifications provided by Uncodemy are highly valued by employers, as they signify that the candidate has completed a rigorous program and has the necessary skills and knowledge to excel in the field.

## Doubt Session



Uncodemy facilitates doubt sessions where students can receive individualized attention and clarification on challenging concepts. These sessions are led by experienced instructors who provide comprehensive explanations and examples, ensuring that students leave the session with a thorough understanding of the material.

## Grooming Session



Soft skills training to improve communication, networking, and leadership skills. Identifying and highlighting transferable skills that may not be obvious.



## CV building

Helping students build a killer resume. Ensuring that the resume includes relevant keywords to help it stand out in applicant tracking systems. Overall, it's about helping students make their resume shine and stand out from the competition.



## Interview session




The goal is to prepare students for the job interview process, giving them the chance to practice their communication and interpersonal skills, and helping them feel more confident and prepared for the real thing.













## Mock interview

Uncodemy uses mock interviews in its IT training program as a tool to help students refine their interview skills and prepare for job interviews in the tech industry. The mock interviews are designed to replicate the pressure and format of a real interview, without the actual job at stake.

# Key Features

 Live industry-based projects	 100% placement assistance	 CV building	 Confidence Building
 Online & offline	 weekly & weekend classes	 Interview Session	 Mock Interview Session
 Course Completion certificate	 Recorded Class	 Group Discussion	 Communication Skills
 Interview Session	 6 Monthe internship	 Access to Class & Training Until Placement	

# Top Skills and Tools Covered

			
			
		 mongoDB	
	 Flask	 FastAPI	



# Course Curriculum

## Hyper Text Mark-up Language (HTML5)

### Detailed Course Contents:

- Introduction HTML
- HTML Basics
- HTML Elements
- HTML5 Semantic
- HTML Attributes
- HTML Headings
- HTML Paragraph
- HTML Styles
- HTML Formatting
- HTML Computer Code
- HTML Comments & Colours
- HTML CSS, Links and Images
- HTML Lists
- HTML Blocks
- HTML Layout
- HTML Responsive
- HTML JavaScript
- HTML Head

- CSS Padding
- CSS Height/Width
- CSS3 Gradients
- CSS3 Shadows
- CSS3 Text
- CSS3 Fonts
- CSS3 2D Transforms
- CSS3 3D Transforms
- CSS Box Model
- CSS Display
- CSS Position
- CSS Align
- CSS Pseudo-class
- CSS Pseudo-element
- CSS Navigation Bar
- CSS Dropdowns
- CSS3 Images
- CSS Attr Selectors
- CSS Forms
- CSS Counters
- CSS3 Animations
- CSS3 Buttons
- CSS3 Multiple Columns
- CSS3 Filters
- CSS3 Media Queries
- CSS3 Responsive

### Cascading Style Sheets (CSS3)

#### Detailed course contents:

- Introduction CSS3
- CSS3 Syntax
- CSS3 Colours
- CSS3 Backgrounds
- CSS3 Borders

# Course Curriculum

## Bootstrap

### Detailed course contents:

- Introduction to Bootstrap
- Bootstrap Basics
- Bootstrap Grids
- Bootstrap CSS
- Typography
- Tables
- Forms
- Buttons
- Corousel
- Modal
- Tooltip

## JavaScript

### Detailed course contents:

#### Introduction to JavaScript

- History of JavaScript
- Advantages
- Limitations
- Script element
- Creating your first JavaScript program
- Coding convention
- Setting up development environment (with VSCode)

### Types and Statements

- Keywords in JavaScript
- Overview of Data types
- Primitive Data types
- Non-primitive Data types
- Conditional statements
- Loops

### Operators

- Introduction to operators
- Operator precedence and associativity
- Deep dive into operators
- Arithmetic
- Comparison
- Ternary
- Logical
- Language
- Bitwise

### Functions - Level I

- Introduction to functions
- Function definition
- Passing values
- Returning values
- Local and global variables
- Functions as objects
- Function constructor

# Course Curriculum

## Functions - Level II

- Function invocation patterns
- Arrow functions
- JavaScript scopes
- Function closures

## Arrays and Strings

- Introduction to Arrays
- Array declaration
- Array access methods
- Multi-dimensional arrays
- String properties
- String access methods

## Objects in JavaScript

- Introduction to objects
- Type of objects in JavaScript
- Creating objects
- Object methods
- Constructor function
- Prototype in JavaScript
- Inheritance using prototype chain

## Event handling

- JavaScript events
- Event handler
- Event flow
- Event bubbling and capturing
- Event types

## Document Object Model (DOM)

- Introduction to DOM
- Types of DOM
- DOM standards and methods
- Manipulating documents using DOM
- Handling images
- Table manipulation
- Animation
- Node and Node-list handling

## Form Handling

- Introduction to forms
- Form processing
- Forms object
- Accessing data from forms
- Form validation
- Additional features in forms
- Validation APIs

## Debugging Techniques

- JavaScript Errors
- Error handling mechanisms

## jQuery

### Detailed course contents:

# Course Curriculum

- Introduction to jQuery
- jQuery Syntax
- jQuery Selectors
- jQuery Events
- jQuery Effects
- jQuery HTML
- jQuery Traversing
- jQuery AJAX & Misc

## ReactJS

### Detailed course contents:

#### Introduction to React

- History of React
- Key Benefits of React
- React development environment
- Creating your first React Application
- React Source code structure

#### JSX

- Introduction to JSX
- Coding in JSX
- Expressions in JSX
- Working with HTML
- Conditional Constructs

#### Components

- Introduction to components
- Why Components?
- Writing JSX code in components

- Adding CSS
- Populating Data Dynamically
- Passing data through "props"
- Multiple Components

#### State and Event Binding

- Introduction to Events
- Event Handlers
- Working with state
- Data Binding
- Controlled and Uncontrolled Components

#### Rendering Lists and Conditional Contents

- Rendering lists of data
- Using stateful list
- Keys in data
- Conditional Contents
- Adding dynamic styles

#### Debugging Techniques

- Understanding error message
- Code flow and warnings
- Breakpoints
- Using React Dev Tools

# Course Curriculum

## Class based Components

- What and Why?
- Adding first class based component
- Working with states and events
- Component Life cycle and in action
- Class based vs functional component

## HTTP

- Introduction to HTTP
- Methods in HTTP
- Response code in HTTP
- Introduction to REST interfaces
- Characteristics of REST
- Introduction to JSON
- JSON data representation
- GET request
- Using async and await
- Handling Http errors
- useEffects()
- POST request

## Custom React Hooks

- What are custom hooks?
- Creating and using custom hooks
- Custom HTTP hooks

## Forms

- Introduction to Forms
- Working with user input submission
- Adding validation
- Working with custom hooks

## Authentication

- What is authentication?
- Why and How?
- Authentication tokens
- Setting up
- Adding signup
- Showing feedback to the user
- Adding User login
- Using tokens
- Redirecting the user
- Adding logout
- Protecting frontend pages
- Persisting User authentication status
- Adding auto logout

## Deployment

- Introduction
- Deployment steps
- Adding lazy loading
- Building the code for production
- Getting started with deployment
- Handling routes and finishing deployment.

# Course Curriculum

## MongoDB Database

### Detailed course contents:

#### CRUD Operations Using MongoDB

- Installing MongoDB
- Connecting to MongoDB
- Schemas
- Models
- Saving a Document
- Querying Documents
- Comparison Query Operators
- Logical Query Operators
- Regular Expressions
- Updating Documents- Query First
- Updating a Document- Update First
- Removing Documents

#### Authentication and Authorization

- Introduction
- Creating the User Model
- Registering Users
- Authenticating Users
- Testing the Authentication
- JSON Web Tokens
- Generating Authentication Tokens
- Storing Secrets in Environment Variables
- Setting Response Headers
- Encapsulating Logic in Mongoose Models

- Authorization Middleware
- Protecting Routes
- Getting the Current User
- Logging Out Users
- Role Based Authorization
- Testing the Authorization

#### Handling and Logging Errors Deployment

- Introduction
- Preparing the App for Production
- Preparing the App for Deployment
- Adding the Code to a Git Repository
- Setting Environment Variables
- MongoDB in the Cloud

## Python Overview

- o Why do we need Python?
- o Program structure

#### Environment Setup

- Python Installation
- Execution Types
- What is an interpreter?
- Interpreters vs Compilers
- Using the Python Interpreter
- Interactive Mode
- Running python files
- Working with Python shell
- Integrated Development Environments
- Interactive Mode Programming
- Script Mode Programming

# Course Curriculum

## Basic Concepts

- Basic Operators
- Types of Operator
- Python Arithmetic Operators
- Python Comparison Operators
- Python Assignment Operators
- Python Bitwise Operators
- Python Logical Operators
- Python Membership Operators (in, not in)
- Python Identity Operators (is, is not)
- Python Operators Precedence

## Basic Concepts

- Data Types
- Variables
- Assigning Values to Variables
- Multiple Assignment
- Python Numbers
- Python Strings
- Accessing Values in Strings
- String Special Operators
- String Formatting Operator
- Triple Quotes
- Built-in String Operations
- Python Lists
- Accessing Values in Lists
- Updating Lists

- Delete List Elements
- Basic List Operations
- Indexing, Slicing, and Matrixes
- Built-in List Functions & Methods
- Python Tuples
- Accessing Values in Tuples
- Updating Tuples
- Delete Tuple Elements
- Basic Tuples Operations
- Indexing, Slicing, and Matrixes
- No Enclosing Delimiters
- Built-in Tuple Functions
- Python Dictionary
- Accessing Values in Dictionary
- Updating Dictionary
- Delete Dictionary Elements
- Properties of Dictionary Keys
- Built-in Dictionary Functions & Methods

## Basic Operators in Python

- Types of Operator
- Python Arithmetic Operators
- Python Comparison Operators
- Python Assignment Operators
- Python Bitwise Operators
- Python Logical Operators
- Python Membership Operators
- Python Identity Operators (is, is not)
- Python Operators Precedence

# Course Curriculum

## Loops and Decision Making

- if statements
- ..else statements
- nested if statements
- while loop
- for loop
- nested loops
- Loop Control Statements
- 1) break statement
- 2) continue statement
- 3) pass statement

## SECTION – II Functions

- Defining a Function
- Syntax
- Calling a Function
- Pass by reference vs value
- Function Arguments
- Required arguments
- Keyword arguments
- Default arguments
- Variable-length arguments
- The return Statement
- Scope of Variables
- Global vs. Local variables

## Python Modules and Packages

- Framework vs Packages
- Folium Introduction

- Why are modules used?
- Creating modules
- The import Statement
- The from...import Statement
- The from...import \* Statement
- Locating Modules
- The PYTHONPATH Variable
- Namespaces and Scoping
- The dir( ) Function
- The globals() and locals() Functions
- The reload() Function
- Packages in Python

## Basic OOPs Concept

- Creating class in Python
- Documented String
- Private Identifier
- Constructor
- Inheritance
- Polymorphism

## Decorator, Iterator and Generator

- Anonymous Function
- Lambda
- Map
- Filter
- Reduce



# Course Curriculum

## SECTION -III

### File Manipulation

- Opening Text File
- Working with a File on Python
- The open function
- File modes
- The file object attributes
- close() method
- write() method
- read() method
- Files: Input
- Files: Output
- Reading files
- Renaming & deleting files
- Writing into a file
- remove() method

### Python GUI

- Basic Operations using Tkinter
- Buttons and Textbox
- Menu Bar
- Message Box and Radio Button
- Checkbox and Event Creating
- Creating Application in GUI

### SQL and Python

- Overview of SQLite
- Integrating Python with SQLite

### Advanced Concept – Overviews

- Networking Overview
- Sending and Receiving Email by Python
- Basics of Pandas and Numpy
- How to use Anaconda
- How to create dashboard
- Overview of Django



# CERTIFICATE OF TRAINING

( ISO 9001 : 2015 Certified )

PROUDLY PRESENTED TO

*Devanshi Pande*

You have successfully completed your  
Four Months Training on Data Analytics with specialisation in Python.

28TH JULY 2023

DATE



*Pradip Mehta*

MR. PRADIP MEHTA

Founder

Certified By :



**NASSCOM**  
Certified Member



# Our Alumnus & Companies



# Our Industry Expert Trainers

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**Ms. Sonal Rana**

Full Stack Development | Core & Advance Java | Spring MVC |  
Angular | Reactjs | MySQL

“Professional Java trainer has extensive knowledge of Java programming combined with good presentation and teaching abilities. Has master’s degree in computer application, strong understanding of Java Development, and over 8+ years of experience. Skills Set: Java 8, J2EE, Spring Boot, Hibernate, JUnit, Maven Microservices, Reactjs, and Angular.



**Mr. Rajesh Kumar Mandal**

Full Stack Development | Express.js | React.js | Node.js  
| JavaScript | Python | Django | Flask

“Mr. Rajesh, an experienced MERN Full Stack Developer, is proficient in building end-to-end applications using MongoDB, Express.js, React.js, and Node.js. With a strong foundation in Frontend and Backend, and comprehensive understanding of Python programming, and hands-on experience in developing scalable applications. He holds a master’s degree in computer science and possesses over 10+ years of expertise.

**Skills Set:**

MongoDB, Express.js, React.js, Node.js, Python, JavaScript (ES6+), RESTful APIs, Git.



# Congratulations

## Placement



TANVI SINGH

wipro



RAJENDRA YADAV

HCLTech



ABHISHEK KUMAR

mamaearth



ABHILASHA RATHI

Infosys



RUBY SHARMA

elmenus



ADITYA SINGH

Deloitte



PRIYA PARIHAR

MeeTri



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JUHI SHARMA

rapidops



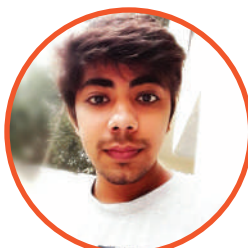
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RADIXWEB  
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SAURABH MISHRA

KPMG



SHURTI

ppInventiv



AKASH SINGH

one  
card

## Congratulations To our selected students

# SUCCESS STORIES



**BABITA**

Company  
Adobe

Uncodemy is the perfect place to start your data science career, as they provide regular live classes with doubt resolution. Moreover, they also allow students to book additional mentor - ship to sessions with industry experts to understand challenging topics better and gain industry insights. Uncodemy as highly as possible and suggest all the aspirants join Uncodemy with hesitation.



**RITESH SINGH**

Company : Bloohash

After spending 2 years in Non-IT job, decided to switch to IT job. Uncodemy is one of the leading brand in this section.

I have complete here Soft - ware testing training course. They have very good trainers and HR team Who helps you to find the right job. The training content is very excellent and very useful to get your dream IT job. special thanks to Shivendra Sir, Ug sir, Anam Ma'am and HR department team for proper guidance and help throughout this journey. Now I'm working in the leading IT company with good package, all thanks to Uncodemy team.

**ADITYA SINGH**

Company : Deloitte



Uncodemy is a good place to start up if you are looking for a career transition or build a career in Data analytics. Moreover, guest lectures by Upendra sir are very insightful. Very efficient manage to reach out for any help during train - ing. The best thing is, they also offer support in looking for jobs post training. Thank You..

**NEELAM**

Company : wipro



I've always wanted to create complete web applications on my own. | went for an Uncodemy Python Full Stack Course. | am 50 grateful to Uncodemy now because | can fulfil my dream. Their staff and training are 50 fruitful, They will walk you through the process of building your first full - stack Python web application. If you Want to be a good program developer, hurry up and go for the Uncodemy Python.

Full Stack Course.



**UnCodemy**

# Contact Us

**For Counselling/Admission**

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