



BROWSEJOBS



## ADVANCE GRADUATE PROGRAMME

# PYTHON BACKEND (DJANGO)

MASTER PYTHON BACKEND AND UPGRADE YOUR FUTURE FOREVER.

\*DESIGNED AND CURATED BY EX GOOGLE EMPLOYEES IN UK. READY TO WORK SYLLABUS.



1 Million  
Learners



1:1 Personalized  
Mentorship



55% Average  
Salary Hike

# ADVANCE PYTHON BACKEND PROGRAMME

## JOB ASSURED PROGRAMME

### Hottest **Job of 21st Century**



MOST DESIRABLE JOBS IN  
2024



CONSIDERED THE SKILL OF THE  
FUTURE BY TOP UNIVERSITIES



ONE OF THE HIGHEST PAID  
SKILLS IN THE WORLD



CONSTANT DEMAND IN THE  
MARKET



Backend Python is the one of  
most desirable skills in the  
world.



THERE IS A CURRENT DEMAND  
OF OVER 1 million BACKEND  
DEVELOPERS

### Our **Credentials**



**1 Million +**

Aspiring Active Students



**1,000+**

Industry-expert Instructors



**400+**

Hiring Partners



**500+**

Corporates Upskilled



**55%**

Average Salary Hike



**155+**

Countries' Learners

## Who Can **Apply for the Course?**

- ✓ Freshers and Undergraduates willing to pursue a career in Python backend
- ✓ Anyone looking for a career transition to Python backend
- ✓ IT Professionals
- ✓ Experienced Professionals willing to learn Python backend
- ✓ Technical and Nontechnical Professionals with basic-level programming knowledge can also apply
- ✓ Project Managers

## Application **Process**

The application process consists of three simple steps. Candidates have to submit their application. An offer of admission will be made to the selected candidates, and their application will be accepted upon the payment of the admission fee.

1

### **SUBMIT APPLICATION**

Tell us a bit about yourself and why you want to join



2

### **ADMISSION TEST & APPLICATION REVIEW**

Clear the admission test and have a personal interview with our interview panel



3

### **ADMISSION LETTER**

Shortlisted candidates would be offered the admission letter





# About Program

This is a live interview-centric course in which the content has been designed in a manner to help you learn Python Back-end Development, along with creating custom web applications and much more. Embark on a journey into Python backend development with our course! Dive deep into the core principles of Python programming and explore its applications in building robust backend systems. From handling databases to creating RESTful APIs, our course equips you with the essential skills needed to excel in backend development. With hands-on projects and expert guidance, you'll gain the confidence to architect scalable and efficient backend solutions



**Learning Format**  
Online Boot Camp



**3 Months**  
Live Classes



**Career Services**  
BrowseJobs



**Data Engineering**  
Certification

## Key Highlights

- ✓ 2 Months of Live Sessions by Industry Experts
- ✓ 200 Hrs of Self-paced Videos
- ✓ 24\*7 Support
- ✓ Integrated with Browsejobs
- ✓ Flexible Schedule
- ✓ Soft Skills Essential Training
- ✓ Career Guidance
- ✓ One-on-One with Industry Mentors
- ✓ 50+ Industry Projects & Case Studies
- ✓ E-learning Videos from Browsejobs
- ✓ Lifetime Free Upgrade
- ✓ Dedicated Learning Management Team

## Program Pedagogy



**Instructor-led Training**  
Get trained by top industry experts



**Dedicated Learning Management Team**  
To help you with your learning needs



**Self-paced videos**  
Learn at your own pace with world-class content



**Projects and Exercises**  
Get real-world experience of projects



**Hackathons**  
Get a sense of how real projects are built



**Peer Networking and Group Learning**  
Improve your professional network and learn from peers



**Gamified Learning**  
Get involved in group activities to solve real-world problems

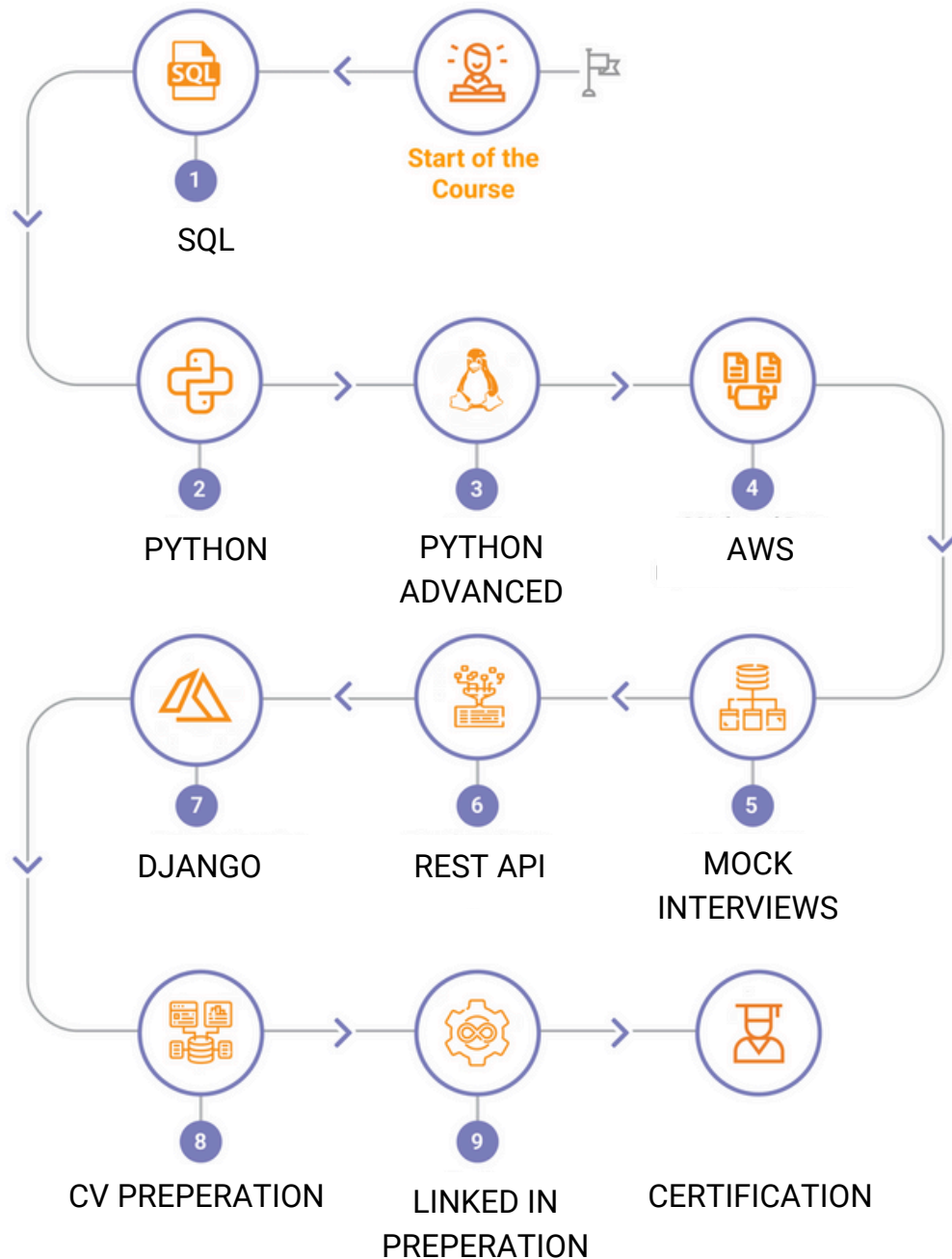


**1:1 Personalized Learning**  
Hands-on exercises, project work, quizzes, and capstone projects

```
modifier_ob.select=1  
bpy.context.scene.objects.active = modifier_ob  
print("Selected" + str(modifier_ob)) # modifier ob is  
modifier_ob.select = 0  
bpy.context.scene.objects.active = modifier_ob
```

## Live Courses

- Live Courses
- Self-paced



- INTERVIEW PREPERATION
- MOCK INTERVIEWS
- REAL TIME PROJECTS
- LLOYDS, HSBC, CBRE, ING PROJECTS

## Module 1: Introduction to Python

- Introduction to Python Programming
- Python Syntax and Data Structures
- Control Flow and Loops
- Functions and Modules
- File Handling in Python
- Error Handling and Exception Handling

## Module 2 : Data Structures in Python

- Lists, Tuples, and Sets
- Dictionaries and Hashmaps
- Understanding Mutability and Immutability
- List Comprehensions and Generators
- Working with Strings and String Manipulation

## Module 3: Object-Oriented Programming (OOP) in Python

- Introduction to Object-Oriented Programming Concepts
- Classes and Objects in Python
- Inheritance, Polymorphism, and Encapsulation
- Advanced OOP Concepts: Abstract Classes, Interfaces
- Exception Handling and Error Handling in Python

## Module 4: File Handling and Input/Output (I/O) Operations

- Reading and Writing Files in Python
- Working with CSV, JSON, and Text Files
- File Manipulation: Renaming, Deleting, and Copying Files
- Handling File Paths and Directories
- Serializing and Deserializing Objects with Pickle and JSON

## Module 5: Advanced Python Concepts

- Decorators and Decorator Functions
- Context Managers and the "with" Statement
- Generators and Coroutines
- Functional Programming in Python: Lambda Functions, Map, Filter
- Python's Standard Library and Built-in Functions

## Module 6: Django Basics

- Installing Django and setting up a project
- Understanding Django's MTV (Model-Template-View) architecture
- Creating Django apps and understanding project structure
- Creating and managing Django models (ORM)
- Creating views and templates for web pages

## Module 7: Django Forms and User Authentication

- Working with Django forms for data input and validation
- Implementing user authentication and authorization
- Creating custom user models and managing user accounts
- Accessing and Manipulating API Data in Python
- Implementing password reset functionality

## Module 8: Django Admin Panel and ORM

- Utilizing Django admin panel for site administration
- Scripting for Customizing admin panel and registering models
- Querying database using Django ORM (Object-Relational Mapping)
- Performing CRUD operations on database models

## Module 9: Django Admin Panel and ORM with Python

- Implementing URL routing and mapping views to URLs
- Passing data from views to templates using context
- Working with HTTP methods (GET, POST) in Django views
- Handling form submissions and processing user input

## MODULE 10: Django Templates and Static Files

- Creating dynamic web pages using Django templates
- Utilizing template inheritance and including templates
- Working with static files (CSS, JavaScript, images) in Django
- Optimizing static file serving for production

## Module 11: Django REST Framework

- Introduction to Django REST Framework (DRF)
- Creating RESTful APIs using DRF serializers and views
- Implementing CRUD operations for API endpoints
- Authentication and permissions for API views

## MODULE 10: Django REST Framework DEPLOYMENT

- Preparing Django project for deployment
- Deploying Django applications to popular hosting platforms
- Configuring production settings for security and performance
- Strategies for scaling Django applications to handle increased traffic



## Module 11: Django Project Structure and Best Practices

- Structuring Django projects for scalability and maintainability
- Implementing best practices for Django development
- Version control with Git and best practices for collaborative
- Code testing and debugging techniques in Django

## MODULE 12: Django Templates and Static Files

- Advanced Django features and libraries (Django Channels)
- Integrating third-party libraries and services into Django projects
- Real-time web applications with Django Channels
- Building a complete Django project from scratch



# Browsejobs Career Services



**500+**  
Webinars



**600+**  
Job Shares



**400+**  
Hiring Partners



**55%**  
Avg. Salary Hike\*

## What Makes Us **Tick**



### Career-oriented Sessions

Attend 10+ career-oriented sessions by industry mentors and prepare your career trajectory



### Profile Building

Craft a Data Engineers resume and LinkedIn profile to make an impression on top employers



### Mock Interview Preparation

Prepare with mock interviews including most asked questions by top employers



### 1:1 Mentoring Sessions

Get 1:1 guidance at every step in your career transition to Data Engineers



### Assured Interviews

Get job Opportunities with Top MNC's & Startups upon movement to Placement Pool\*\*



### Dedicated Job Portal Access

Get exclusive access to 200 job postings per month on browsejobs job portal



### Job Fairs

Job fairs are conducted regularly to introduce learners to major organizations



### Hackathons

Work in teams and get exclusive access to hackathons



## **BROWSEJOBS**

### **About Browsejobs**

We are Browsejobs, an award-winning digital consulting firm, globally recognized for our exceptional service in the field of artificial intelligence (AI), data science, and software development. With roots dating back to 2013 in London, we are known for providing state-of-the-art technology solutions that drive business performance and enable future readiness. We expanded our operations to India in 2020 and have since been voted the Most Trusted Consulting Firm in India in 2023.





1 Million

Learners & 500+ Corporates across 5+ Countries  
upskilling on Browsejobs Platform



## Contact Us

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