



Skillup Bharat

Training | Placements | Outsourcing

PYTHON FULLSTACK



About Company

SkillUp Bharat is a leading platform that offers technical and non-technical courses designed to prepare students for industry challenges.

We provide internships, hands-on training, and placement opportunities, ensuring learners gain practical experience through real-time projects. Our programs focus on enhancing both technical and soft skills, making students job-ready.

WHY TO CHOOSE US!

- 1. Industry-Relevant Courses**
- 2. Hands-On Internships**
- 3. Real-Time Project Experience**
- 4. Placement Support**

Python Fullstack Syllabus

Irrespective of any domain

Description

The Python Fullstack Development course offered by UpskillBharat is designed for individuals looking to build a career in web development using one of the most popular programming languages. This course covers both front-end and back-end technologies, providing a comprehensive understanding of full-stack development. Learners will gain hands-on experience with Python for server-side development, as well as HTML, CSS, and JavaScript for client-side applications.

One of the key benefits of this course is its industry-relevant curriculum, which includes popular frameworks like Django and Flask for backend development. These frameworks simplify the process of building robust, scalable web applications. The course also emphasizes the importance of database management, teaching students to work with SQL and NoSQL databases like MySQL and MongoDB, which are essential skills for any full-stack developer.

Additionally, the course includes modules on version control systems (like Git), deployment strategies, and RESTful API development, ensuring students are well-versed in modern development practices. By the end of the course, learners will have built multiple projects, allowing them to showcase a portfolio of work that can help them secure job opportunities in the tech industry. UpskillBharat's focus on practical skills, mentorship, and career guidance makes it a great option for those looking to transition into the field of web development.

Expectations and Goals

By the end of this course, students will be able to:

- Write basic Python programs using proper syntax.
- Work with variables, operators, and control flow statements.
- Design and implement functions and methods.
- Create and manipulate classes and objects.
- Apply inheritance and polymorphism principles.
- Utilize lists, tuples, sets, and dictionaries effectively.
- Handle exceptions in their programs.
- Build robust web applications using Flask/Django frameworks.

Complete Python Full Stack Bootcamp 2024

Course Syllabus

Module 1: Python Fundamentals

- Introduction to Python Programming Language
- Data Types, Variables, and Operators
- Control Flow and Loops
- Functions and Modules
- File Handling and Exception Handling

Module 2: Frontend Development

- HTML5 and CSS3 Basics
- Introduction to JavaScript
- DOM Manipulation and Event Handling
- Introduction to Frontend Frameworks (e.g., Bootstrap)

Module 3: Flask Framework

- **Introduction to Flask**
- **Setting up a Flask Application**
- **Routing and URL Building**
- **Templates and Static Files**
- **Forms and Validation**
- **Flask-SQLAlchemy for Database Interaction**
- **User Authentication and Authorization**
- **RESTful APIs with Flask-RESTful**

Module 4: Database Fundamentals

- **Introduction to Relational Databases (e.g., SQLite, MySQL)**
- **Database Design and Normalization**
- **SQL Basics and Advanced Queries**

Module 5: Django Framework

- **Introduction to Django**
- **Django Models and Migrations**
- **Django Views and Templates**
- **Django Forms and Formsets**
- **User Authentication and Authorization in Django**
- **Django Rest Framework for API Development**
- **Django Middleware and Signals**
- **Django Testing**

Module 6: Version Control with Git

- **Introduction to Version Control**
- **Setting up Git and GitHub**
- **Basic and Advanced Git Commands**
- **Branching and Merging Strategies**

Module 7: Deployment and Containerization

- **Introduction to Deployment**
- **Deploying Flask/Django Applications on Platforms like Heroku**
- **Introduction to Docker and Containerization**
- **Docker Compose for Multi-Container Applications**

Module 8: Frontend Framework

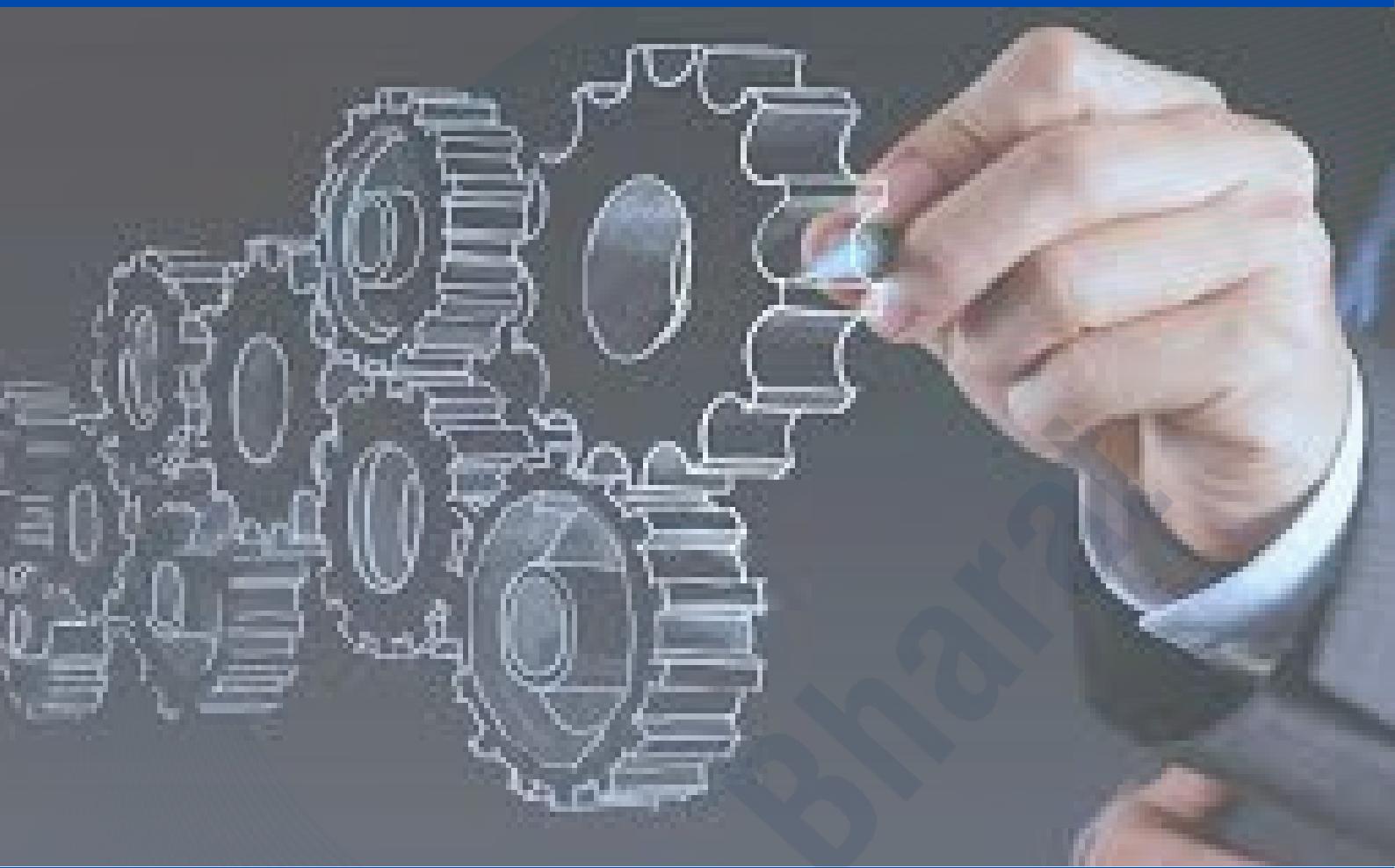
- **Introduction to a JavaScript Frontend Framework**
- **Integrating Frontend Framework with Flask/Django**

Module 9: Project Work

- **Building a Full-Stack Web Application**
- **Best Practices in Code Organization and Documentation**
- **Collaborative Development using Git**

Module 10: DevOps and Continuous Integration

- Introduction to DevOps
- Implementing Continuous Integration with Jenkins or GitLab CI



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THANK YOU

**Master New Skills, Unlock
New Opportunities!**

