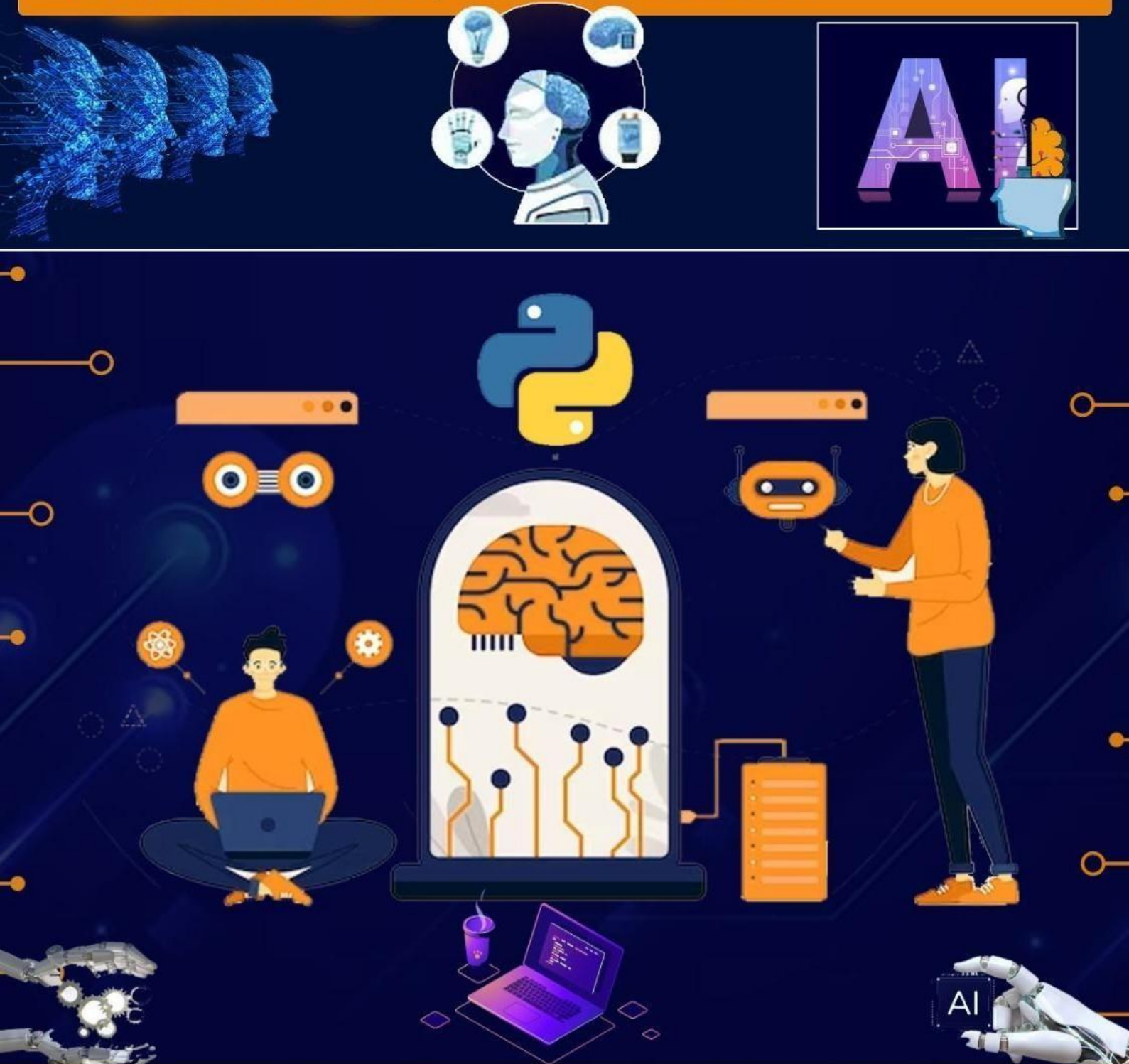


Python (Fundamentals of ML/AI)

Become Proficient in Python, File handling , Exception handling
Functions, Module & Packaging , OOP Python , Fundamental of
AI & ML & DS, Data Analysis, Data visualization



Career Opportunities In Python (Fundamentals of ML/AI)



Data Scientist

Analyzes data to extract insights and build predictive models for informed decision-making.



Data Analyst

Gathers, cleans, and visualizes data to provide actionable insights for businesses.



Data Engineer

Manages data collection, cleaning, and transformation for analysis.



NLP Engineer

Develops language algorithms for chatbots, sentiment analysis, and translation.



Machine Learning Engineer

Develops and deploys machine learning models for real-world applications.



Business Intelligence Analyst

Creates data reports and visualizations to monitor and inform business performance.



AI Researcher

Advances artificial intelligence by developing new algorithms and models.



Python Developer

Codes, tests, and maintains software, specializing in web development, data analysis, or automation.

A Brief About **UPFLAIRS**

UpFlairs is an innovative **educational technology** company with a clear mission to elevate the skills and employability of students throughout India.

Our dedicated team is committed to fostering the next generation of tech talent, equipping them with cutting-edge skills in emerging technologies and has educated more than 47K students all over the globe including IITs, NITs, Deemed Universities and other colleges.

We offer the courses that are most trending technologies of the recent era in the fields like **AI/ML, Data Science, Cloud Computing, DevOps, Full Stack Web Development, Embedded Systems, IoT, and Robotics**. These courses are meticulously designed to provide students with the practical skills and knowledge required to excel in tech-driven careers, making them not just job-ready but industry leaders of tomorrow.

We are not only limited to training the youth of the country but also provide Lab setups to various Colleges and Universities and Project solutions to other companies for the domains like **AI-ML, IOT, ROBOTICS AND CLOUD**.



Who Should Go for This Python (Fundamentals of ML/AI)?



College Student

Start shaping your career right from college time by learning in-demand skills like Data Science with Machine Learning & AI.



Graduate

Time for you to upskill, prepare yourself for a bright future, and kickstart a career in Data Science with Machine Learning & AI.



College Dropout/Job Seeker

Not sure which career is right for you? Not finding any jobs? Learn Data Science with Machine Learning & AI with us to land your first job.



Freelancer

Whether you're already a freelance Data Scientist or looking to launch your career in freelancing, expertise in Machine Learning & AI is the most lucrative skill set for freelancers in the data science domain.



Looking to Switch Career

Not satisfied with your current job profile? Switch to Machine Learning & AI, an easy-to-learn, most impressive, and highly-paid skill.

Why Learn **Python(Fundamentals of ML/AI)** With **Upflairs** Only?



Trusted by Learners

Our training and support system intrigue learners.



Expert Trainers

Professional Trainers having experience of delivering more than 30k students. We ensure the high quality training always aimed at career building.



Completely Practical-Oriented

We offer 100% practical training with regular assessment, assignment and projects.



Industry-Recognized Certification

The certificate received by the learners on course completion is valid nationally and internationally. You can easily share , add it to your resume and explore great opportunities.



Online & Offline Batches

You can upskill yourself from anywhere by joining our live training batches Also we provide classroom training in Jaipur.



Career Assistance

We help you build a great career as a developer. Our team offers you career guidance, prepares you for interview, and assists you in finding job.



Hands-On Projects

You will get to work on multiple projects during the training so that you can gain some experience.



Comprehensive Curriculum

The course includes most comprehensive Curriculum, covering all breadths and depths in detail.

PYTHON (Fundamentals of ML/AI)

Duration – 15 Days (30 Hours)

DAY 1	Introduction (2 Hours)	<ul style="list-style-type: none"> • Introduction with Module • Why Python? • Basic Linux/Windows Commands • Its importance & Future Aspects • Downloading & Installing Python with its IDEs • Setting up Environment for Python • Understanding its Command Line & Scripts • Simple Python Program
DAY 2	Data & Types (2 Hour)	<ul style="list-style-type: none"> • Python Variables, Rules of Identifiers • Creating, Using and Printing a Variable in Python • Taking User Inputs from Python • Some Common Functions • Python Keywords • Interactive Mode & Script Mode Programming • Python Comments
DAY 3	Data & Types (2 Hour)	<ul style="list-style-type: none"> • Python Operators: Arithmetic, Assignment, Relational, Logical, Bitwise, Identity, Membership • Python Braces: [], {}, [] • Python Data Types/Classes: int, float, complex, str, list, tuple, dict, set, bool • Numeric Data Types: Creation, Modification, Use of Operators, Built-in Functions • Concept of Mutability • String Data: Creation, Accessing, Modification*, Use of Operators, Built-in Functions, Use of Triple Quotes
DAY 4	Data & Types (2 Hour)	<ul style="list-style-type: none"> • List: Creation, Accessing, Modification, Use of Operators, Built-in Functions • Tuple: Creation, Accessing, Modification, Use of Operators, Built-in Functions • Dictionary: Creation, Accessing, Modification, Use of Operators, Built-in Functions • Type Casting in Python • Set: Creation, Accessing*, Modification, Use of Operators, Built-in Functions • Boolean: Creation, Use of Operators • Some Common Functions.

DAY 5	Control Statements in Python (2 Hours)	<ul style="list-style-type: none"> • Concept of Indentation in Python • Python Suites: Simple, Nested, Ladder, Hybrid • Conditional IF: Use of if-elif-else in Python
	Mini Project	<i>Project 1: "ATM Simulation"</i>
DAY 6	Python Loops (2 Hours)	<ul style="list-style-type: none"> • WHILE : Use of while statement in Python • FOR Loops: The for-loop behavior in Python • Using range() function • Use of break and continue • Some Common Functions
DAY 7	Comprehensions (2 Hours)	<ul style="list-style-type: none"> • Writing Python IF in one line • List Comprehension • Use of Conditionals • Nested Comprehensions • Some Common Functions
DAY 8	User Defined Function (2 Hours)	<ul style="list-style-type: none"> • Defining and calling a custom user defined Function • Types of Functions by parameters/arguments • Creating user defined function. • Function without and with parameters • Default Arguments • Arguments Skipping
DAY 9	User Defined Function (2 Hours)	<ul style="list-style-type: none"> • Variable Length Arguments *args • Keyword Arguments **kwargs • Passing Functions as Arguments • Recursion • Anonymous Functions: Lambda Expressions • Use of map(), filter(), reduce()
DAY 10	Modules & Packages (2 Hours)	<ul style="list-style-type: none"> • Python Library & Packages • Using Modules by: import, from-import, creating alias • Downloading a new module • Installing a module • Creating User-defined module
		<ul style="list-style-type: none"> • Some Commonly used Modules in Python: time, os, datetime, random • Generating Random Numbers • Creating files, directories

DAY 11	File Handling & Manipulation (2 Hours)	<ul style="list-style-type: none"> Python Simple File Handling Use of with-as Statement json: Reading, Creating JSON Files
	Mini Project	<i>Project 2 : “CLI based Students Registration Portal”</i>
DAY 12	Errors & Exception Handling (2 Hours)	<ul style="list-style-type: none"> Errors and Exceptions Exception Handling: Try, except, finally User Defined Exceptions
	Mini Project	<i>Project 3 : “CLI based Email Client using Python”</i>
DAY 13	Object Oriented Programming (2 Hours)	<ul style="list-style-type: none"> OOP Introduction Classes, Objects, Methods;
DAY 14	Object Oriented Programming (2 Hours)	<ul style="list-style-type: none"> Inheritance: Its types Polymorphism
DAY 15	Object Oriented Programming (2 Hours)	<ul style="list-style-type: none"> Overloading Encapsulation Overriding
	Capstone Project (2 Hours)	<i>Capstone 1: “Chat Messenger Based CLI”</i>

Banasthali Vidyapeeth

Upflairs
INDUSTRY 4.0

The Cloud Revolution

At : SKIT, Jaipur

Glimpse of Events

Upflairs

NIT, Jalandhar

JECRC, Jaipur

Banasthali Vidyapeeth



From Startups & SMBs to Brands & MNCs,
companies are actively looking for skilled
Python(Fundamentals of ML/AI) at
lucrative packages

Grab these opportunities by holding mastery of
Python(Fundamentals of MI/AI)!

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