Course Name	PYTHON PROGRAMMING - BEGINNER TO EXPERT
About the Course	Python is a versatile and beginner-friendly language widely used in fields such as Software Development/Web development, Data Science, AI, and Automation. This course covers foundational concepts to advanced topics, guiding you from beginner to expert with practical projects for hands-on learning.
Key Skills You Will Learn	Learn Python - the most popular programming language and for Data Science and Software Development, learn basics of Python Programming to Advanced concepts including Numpy, Pandas, Data Science, Data Analysis, Data Visualization using Python, Basics of Machine Learning
Course Pre-Requisite	No pre-requisite
Target Audience	Anyone who wants to be a Software Developer and/or wants to learn Python programming language and its application into Data Science, Data Analytics, Software Development, Data Engineering, AI, and DevOps as well as get into a number of Software Development job roles
Job prospects with this role	Junior Python Developer, Python Developer, Python Software Developer, Back-end Python Developer, Python Senior Developer, Machine Learning Engineer
Course Duration	~ 60 Hrs
Course Customisation	Course customisation (as needed by the student) is possible. Pls. contact us for the customised course curriculum, duration and fees
Certification	READYBELL Python Developer Certificate
Mode of Training	Instructor-led 100% Online or 100% Classroom (Salt Lake, Kolkata - India) or hybrid mode (Online + Classroom) as suitable for the learner
Course Fees	Please contact us
Refund Policy	Get a 3-day free trial during which you can cancel at no penalty. After that, we don't give refunds
Job Assistance	Mock Interviews (pertaining to the course) from Industry Leaders, Job leads with extensive interactions with Industry Leaders working in the course relevant field, Job Guidance, Techniques of resume preparation, Networking,
Contact	**READYBELL SOFTWARE SERVICES PVT. LIMITED** **AH 12, SALT LAKE SECTOR 2, KOLKATA (INDIA) - 700 091** **E-MAIL: contact@readybellsoftware.com** **PH: +91 - 9147708045/9674552097, +91 - 33-79642872** **ReadyBell** Software Services Pvt. Ltd.

CURRICULUM		
Topic	**Sub-Topic**	**Duration (Hrs)**
PYTHON PROGRAMMING - BEGINNER TO EXPERT	**Introduction to Python**	60 Hrs
	What is Python?	
	Setting Up Python Environment	
	Python Basics	
	Syntax and Variables	
	Data Types	
	Basic I/O Operations	
	Operators	
	Control Structures	
	Conditionals	
	Loops	
	List Comprehensions	
	Data Structures	
	Lists	
	Tuples	
	Dictionaries	
	Sets	
	Functions and Modules	
	Defining Functions	
	Scope and Lambda Functions	
	Modules and Packages	
	File Handling	
	Reading and Writing Files	
	File Operations	
	Errot Handling	
	Exceptions	

Object-Oriented Programming (OOP)	
Classes and Objects	
Inheritance and Polymorphism	
Encapsulation and Abstraction	
Python Libraries	
TensorFlow	
Matplotlib	
Peewee	
Tkinter	
Numpy	
Pandas	
Scikit-Learn	
ORM (Object Relational Mapper)	
Introduction to Object Relational Mapper	
Writing Python code using ORMs instead of using SQL	
Database Management	
Introduction to Database Management	
SQL Database	
NoSQL Database	
Way to interact with them using Python libraries	
Advanced Topics	
Decorators	
Generators	
Iterators	
Context Managers	
Regular Expressions	
Multithreading and Multiprocessing	
Working with APIs	
Data Science Basics	
Data Visualization	
Implement basic machine learning algorithms with Scikit-Learn	

Web frameworks
Flask - The micro web framework for Python
Django - The high-level framework
PROJECTS
Beginner Projects
Command-line calculator
To-do list app
Simple chatbot
Weather API integration
Basic web scraper
Intermediate Projects
Personal finance manager
Image processing and manipulation
Text-based adventure game
Web development project (blog, portfolio)
Data analysis and visualization project
Advanced Projects
Machine learning model deployment
Natural language processing project
Real-time data visualization dashboard
Web application with user authentication
Distributed computing project
Quiz/Assessments
Quiz/Assessments

To register for this course please e-mail/call us