upGrad

Python Programming Bootcamp

8 Weeks | Live Online

CONTENTS

ABOUT
UPGRAD

upGrad is India's largest online higher education company with a learner base of 2 Million+ across 85+ countries.

upGrad provides online programs in the areas of Data Science, Machine Learning and AI, Technology, Management, Marketing and Law to college students, working professionals and enterprises. These programs are designed and delivered in collaboration with top-notch universities like **IIM Kozhikode, IIIT Bangalore, Duke CE, Deakin University, Michigan State University, Liverpool John Moores University and others.**

Having ranked #1 in LinkedIn's Top Startups in India 2020 and having been awarded the title of 'Best Tech for Education' by IAMAI in 2019, upGrad was among the Top 50 fast growing companies list by Financial Times.

"

**Our aim is simple:
We strive to create
high-impact, hands-on
experiences that will prepare
you for an aspirational career
and empower you to be the
leader of tomorrow.** "

Ronnie Screwvala

Co-founder and Executive Chairman

upGrad

PROGRAM HIGHLIGHTS

LEARN FROM SEASONED DATA SCIENCE EXPERTS
• Learn new age tools like Python, Jupyter, NumPy, Pandas, MySQL.

LIVE ONLINE SESSIONS
• The right balance between pre-recorded content along with live online lectures held by industry experts.

PRACTICE CODING TESTS & MCQS
• Each module has coding exercises to give you a hands-on experience to reinforce the learnings from this bootcamp.

TA HOURS
• There will be teaching assistant sessions where you can solve your doubts.

WHO IS THIS PROGRAM FOR?

Whether you want to transition into a data scientist role or acquire the right skill-set to grow in your current role, this program is just right for you.

IT/ITES PROFESSIONALS
Revisit the fundamentals of programming in the Python language and further understand how to use Python for data mining using the Pandas libraries. You will also learn the fundamentals of SQL using the MySQL Workbench - another powerful tool for data manipulation and mining.

MANAGEMENT PROFESSIONALS
Set up the foundations for data-driven work by learning how to grab useful information and insights when working with data extensively using MySQL and Pandas that enable data-driven decision-making.

FRESH GRADUATES, STUDENTS & ANYONE INTERESTED IN LEARNING MORE ABOUT DATA SCIENCE
Venture into the world of data science by learning the fundamentals of Python programming. Understand how to manipulate data and work on dataframes using powerful tools and libraries such as MySQL and Pandas.

INDUSTRY
EXPERTS

Behzad Ahmadi
Data Scientist, Walmart Labs

An M.Tech graduate and a PhD holder from the New Jersey Institute of Technology, Behzad possesses tremendous amount of experience in the field of Data Science and Machine Learning. He has worked with organisations like Qualcomm and currently, is a Data Scientist at Walmart Labs.

Sajan Kedia
Data Scientist, Myntra

Having graduated from the Indian Institute of Technology, BHU, Varanasi, Sajan has tons of experience in Data Science, Big Data, Spark, Machine Learning & NLP. He is a certified Machine Learning Expert and has worked as a Research Engineer for IBM in the past. At present, he is a Data Scientist at Myntra and leads the Pricing Team there.

*For recorded content. To know more about the experts conducting the live lectures consult an admission counsellor.

PROGRAM CURRICULUM

Preparatory Content (1 week)

- Data Analysis using Excel

Introduction to Python and Logic-Based Programming (3 weeks)

- Recorded Module I: Python Basic Syntaxes and Data Structures

- Recorded Module II: Python Programming Constructs and Functions

- Live Session I: Python Crash Course - I - Developing Logic in Programming

- Live Session II: Hands-on Session on Basic Python Syntaxes

- Live Session III: Python Crash Course - II - Data Structures

- Live Session IV: Hands-on Session on Data Structures

- Live Session V: Python Crash Course - III: I/O, Error Handling and Best Practices, Functional Programming (filter, map, reduce, lambda)

- Live Session VI: Hands-on Session on Functional Programming

- Practice: 30 MCQs, 30 Coding Questions

Python for Data Science using Pandas (2 weeks)

- Recorded Module I: Python for DS - Basic Database Programming using Pandas

- Recorded Module II: Python for DS - Advanced Database Programming using Pandas

- Live Session I: NumPy and Pandas - Walkthrough of Major Syntaxes

- Live Session II: Manipulating Databases through Pandas & Built-in Functions

- Practice: 20 MCQs, 15 Coding Questions

Database Programming using MySQL (2 weeks)

- Recorded Module I: Basics of SQL - Databases, DDL, DML, Basic Syntaxes

- Recorded Module II: Basics of SQL - Joins, Merges, Functions

- Live Session I: Walkthrough of Major SQL Syntaxes

- Live Session II: Hands-on on Major SQL Syntaxes and Doubt Resolution

- Practice: 5 MCQs, 20 Coding Questions

Disclaimer: Program curriculum is subject to change basis inputs from the institute and experts. Please refer to the website for update details, or speak to our Admission Counsellors.

PROGRAM
DETAILS

DURATION

8 Weeks

TIME COMMITMENT

10-12 Hrs./ Week

PROGRAM FEES

INR 25,000/-
(Inclusive of GST)

ELIGIBILITY

Interest in learning Python Programming is a must. The admission committee will review and shortlist relevant profiles.

FOR ADMISSIONS VISIT:

https://www.upgrad.com/python-bootcamp/

FOR FURTHER DETAILS, CONTACT:

✉ admissions@upgrad.com

📞 1800 210 2020
   We are available 24*7

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