

Python Programming Course

3,800+
Trainings

55+
Countries

38,000+
Participants

10+
Years



Digital Vidya

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Python Programming Course

Why Learn Python Programming?

Stay Ahead of the Change

- Average salary base for Python programming jobs is \$123,743
- Python language is among the five most popular programming languages
- In India, the initial salary ranges between 3,00,000 - 8,00,000 INR
- There are 25,000+ monthly Python programming job openings
- Currently, there are 61,818 Job Postings for Python programming on Indeed

What Will You Get?

Learning That's Not Confined



14

Number of Modules

42

Training Hours

28+

Assignment Hours

02

Projects

14+

Assignments

10+

Trainers

24*7

Forum
Support

Salient Features



3 Hrs/Week Live
Instructor-Led online Sessions



1 Week of
Project Work



Active Q/A Forum



Class Labs/Home Assignment
(05 hrs/Week Learning Time)



Govt. of India
(Vskills Certified Course)



24*7 Support



Individual Attention to
Each Learner



Lifetime Access to
Updated Content and Videos



Industry and
Academia Faculty



Multiple Tools
Covered



Collaborative Learning
Experience



Top Rated
Advisors



Industry Relevant
Curriculum



Career Mentoring



Hands-on Approach



Money Back
Guarantee

Who Should do this Course?

Get Ready to Transform

- Freshers who wish to learn Data Science or Machine Learning
- Non-IT professionals who wish to switch to the Data Science Industry
- Computer Science graduates with weak programming skills



Course Curriculum

Python - Fundamentals

- Installation
- Python – Syntax
- Python – Variables and Datatypes
- Python – Numbers
- Strings
- Sequences
- List
- Tuples
- Ranges
- Dictionary
- Sets
- Operators
- If..Else.. Statements
- For Loop
- While Loop
- Break
- Continue
- Pass
- Date & Time
- Functions
- Packages and modules
- Reading a File
- Writing into File
- Class & Objects
- Python – Exceptions
- Regular Exp
- Mathematics



Python MySQL

- Environment Setup
- Database Connection
- Creating a New Database
- Creating Tables
- Insert Operation
- Read Operation
- Update Operation
- Join Operation
- Performing Transactions

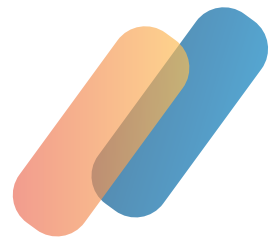


Numpy

- ndarray
- Array Creation
- Data Type Objects
- Data type Object (dtype) in NumPy
- Indexing
- Basic Slicing and Advanced Indexing
- Iterating Over Array
- Binary Operations
- Mathematical Function
- String Operations
- Linear Algebra
- Sorting, Searching and Counting
- Set 1 (Introduction)
- Set 2 (Advanced)
- Multiplication of two Matrices in Single line using Numpy in Python

Pandas DataFrame

- Creating a Pandas DataFrame
- Dealing with Rows and Columns in Pandas DataFrame
- Indexing and Selecting Data with Pandas
- Boolean Indexing in Pandas
- Conversion Functions in Pandas DataFrame
- Iterating over rows and columns in Pandas DataFrame
- Working with Missing Data in Pandas
- Working With Text Data
- Working with Dates and Times
- Merging, Joining and Concatenating



Data Analysis

- Data visualization using Bokeh
- Exploratory Data Analysis in Python
- Data visualization with different Charts in Python
- Data Analysis and Visualization with Python
- Math operations for Data analysis



Object-Oriented Concepts

- Class, Object and Members
- Data Hiding and Object Printing
- Inheritance, examples of an object, subclass and super
- Polymorphism in Python
- Class and static variable in Python
- Class method and static method in Python
- Changing class members
- Constructors in Python
- Destructors in Python
- First-class function
- str() vs repr()
- str() vs vpr()
- Metaprogramming with metaclasses
- Class and instance attribute
- Reflection
- Barrier objects
- Timer objects
- Garbage collection

Functions

- Functions in Python
- class method vs static method in Python
- Write an empty function in Python – pass statement
- Yield instead of Return
- Return Multiple Values
- Partial Functions in Python
- First Class functions in Python
- Precision Handling
- *args and **kwargs
- Python closures
- Function Decorators
- Decorators in Python
- Decorators with parameters in Python
- Memoization using decorators in Python
- Python bit functions on int (bit_length, to_bytes and from_bytes)

Certifications



Digital Vidya's Python Programming Certification



Vskills Certification

Assignments

Assignments increase the learning capabilities of the students & prepare them to execute practical tasks in a real world scenario. Digital Vidya's Python Programming Course assignments are created with an aim to provide the best possible practical exposure to the learner. These assignments are designed in a way that you can apply all your Python programming skills gained from your instructor-led online lessons.

We make sure to take your Python programming skills reach the next level through these hands-on assignments.

- Introduction to Python
- Dive Deep into Python
- Introduction to NumPy Library
- Data Manipulation using Pandas Library
- Analyzing & Manipulating Data
- Data Visualization
- Merge Multiple Datasets into One



Tools You Will Learn



Course Advisors & Instructors

Course Advisors



SHWETA GUPTA

Vice President, Tech.

Shweta Gupta has 19+ years of Technology Leadership experience. She holds a patent and number of publications in ACM, IEEE and IBM journals like Redbook and developer Works.

Digital Vidya



MANAS GARG

Architect

Manas Garg heads the Analytics for Marketing at Paypal. He takes Data Driven Decisions for Marketing Success.

PayPal



VISHAL MISHRA

CEO & Co-Founder

Vishal is a Technology Influencer and CEO of Right Relevance. (A platform used by millions for content & influencer discovery)

 **Right Relevance**

Trainer Profiles



SHAHEER AHMAD KHAN

Shaheer is a Data Analytics professional. His deep learning for perception makes him a perfect Data Analytics professional. He holds expertise in Data Mining, Machine Learning, Information Retrieval, Concurrent and Distributed Systems, Web Programming and Advanced Programming.



VAISHALI GARG

Vaishali Garg is a self-taught data analyst with a health-care background. She uses Python with Pandas, Numpy, Matplotlib and Scikit. She has a keen interest in data analysis using Pandas and is actively answer Pandas related questions on StackOverflow (Vaishaligarg, alias: A-Za-z). Some of her analysis is available on Kaggle.



PRITESH SHRIVASTAVA

Pritesh is a Data Science enthusiast with an ability to turn data into actionable insights and meaningful stories. He possesses solid knowledge and hands-on experience of both quantitative and qualitative analysis and data mining. Apart from his profession, he also procures passion and talent in Dramatics, Travel, Story-telling, Martial Artist.

Management Team

ANUJ BATRA

CEO

Anuj Batra has spent more than 15 years in senior leadership roles at organizations such as Genpact, CPA Global, Electronic Data Systems (EDS) and COLT Telecommunications. He strongly feels that industry interface in professional education makes learning more accessible and students more equipped to take on new roles and jobs.

An astute commercial leader, Anuj has been responsible for the design and implementation of commercial and business strategy as well as key financial roles including leading Corporate Training Programs across several companies. He envisions professional education as a key enabler for enhancing employability.



PRADEEP CHOPRA

Co-Founder

Among the pioneers of Digital Marketing in India, Pradeep has been part of the Internet Industry since 1999.

Pradeep is an international speaker & an author on Digital Marketing & Entrepreneurship. He is one of the most sought after speakers in Digital Marketing and his speaking assignments include ad-tech, Search Engine Strategies (USA, India), World Social Media Summit at Kuala Lumpur, Social Media Workshops

in Singapore, Click Asia Summit, TiEcon, Global Youth Marketing Forum and NASSCOM India Leadership Forum in India. He writes on Entrepreneurship and Digital Marketing for Wall Street Journal, Inc & Entrepreneur Magazines.

A graduate from IIT Delhi, Pradeep is a core member of the Global Committee at SEMPO (Search Engine Marketing Professional Organization), a non-profit that nurtures the growth of Digital Marketing globally. He also sits on the advisory board of Social Media Chambers Malaysia. His obsession for the digital medium has led him to believe that Internet connectivity is more important than the water supply.



KAPIL NAKRA

Co-Founder

Kapil Nakra, a graduate from IIT Delhi, is a first-generation Serial Entrepreneur. As a pioneer of Digital Marketing in India, Kapil has grown along with the Internet Industry as a User, a Service Provider and now as an Educator.

He started his entrepreneurial journey in 2000 when he started his 1st venture, Whizlabs Software. At Whizlabs, he pioneered the efforts in building an online market for Whizlabs'

assessment solutions for enterprises and helped Whizlabs acquire over 100 Enterprise Customers including blue-chip accounts such as Cisco purely using Digital Marketing. Whizlabs won the 'Most Innovative Indian IT Company' award from NASSCOM in 2004. Kapil is known for his simplistic and inquisitive leading style, which motivates people to think out-of-the-box. It goes without that saying that Kapil has a deep passion for Entrepreneurship and Digital Marketing. He is a regular speaker at various Digital Marketing conferences and his previous speaking engagements include speaking at SearchCamp and OMCAR.



Industry Experts Speak



Good to see Digital Vidya becoming increasingly more involved in covering data science vertical, look forward to collaborating with DV to help shape this industry.



Naresh Mehta

AVP – Data Science & Analytics



Yes, I like the huge investment Digital Vidya is doing to create the next generation of talent. Initial feedback suggests Digital Vidya produces high-quality Data Analysts.



Ajay Ohri

Data Scientist

KOGENTiX



I can see a good course structure and well-designed syllabus for those who are passionate enough to enter into the analytics world. The platform helps people grow professionally and in very less time.



Madhu Vadlamani
Lead Analytics



Participant Reviews



This course helped me in understanding Python from the basics & got me ready to implement machine learning models successfully.



Shubham Parab

Software Developer



The course Data science using python at Digital Vidya provided me a turning track for my career which was fruitful in curving my role as a Data Scientist.



Priyotosh Sahoo

Data analyst





Interested? Contact Us!

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🌐 info@digitalvidya.com

● Duration
14 Weeks

● Fee
Rs. 24,990+GST

● Batch Options
Weekend

Digital Vidya