

Python For Beginners

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Start with the following resource as a beginner.

Python Basics [Learn the basics of python]
<https://www.w3schools.com/python/default.asp>

Pyspark Beginners [Learn the basics of pyspark]
<https://www.codecademy.com/learn/big-data-pyspark>

Python Official [Learn the basics of python and hands on.]
<https://www.python.org>

Other platforms for learning python. The above resource should be sufficient for Basics. For extensive hands-on + projects and exercise below, resources will be helpful.

Platform	Format	Highlights
freeCodeCamp	Interactive + Projects	Full curriculum, strong community
Google's Python Class	Written + Video + Exercises	Comprehensive materials from Google engineers
Codecademy (Free)	Interactive Browser-Based	Beginner-friendly, structured, intuitive interface

Course / Resource	Duration	Platform	Highlights
Python Bootcamp / Coursera spec.	~20–60 hours	Udemy / Coursera	Strong Python fundamentals & real coding practice
Udemy – PySpark for Beginners	Self-paced	Udemy	Spark architecture, DataFrames, cluster examples
DataCamp Foundations of PySpark	Interactive	DataCamp	ML pipelines, joins, real datasets
Codecademy Intro to Big Data	~4 hours	Codecademy	Short, beginner-friendly with projects

Spark Playground	Ongoing	Web-based	Hands-on practice, ideal for experimentation
Ansh Lamba YouTube Tutorial	~6 hours	YouTube	Full deep-dive into Spark concepts & use cases
DataFlair Free PySpark Certification	170+ hours	DataFlair	Comprehensive content, quizzes, long-term access

- <https://www.coursera.org/specializations/python>
- <https://www.sololearn.com/en/>
- <https://adventofcode.com/2024/about>
- <https://www.freecodecamp.org/learn/python-for-everybody/#python-for-everybody>
- <https://www.freecodecamp.org/learn/data-analysis-with-python/#data-analysis-with-python-projects>
- <https://www.freecodecamp.org/learn/scientific-computing-with-python/>

Official

<https://spark.apache.org/docs/4.0.0/>

<https://www.python.org>