COURSE SYLLABUS

Python Certification Online

In this certification program, you'll master Python fundamentals, analyze real-world datasets, and build hands-on projects that prepare you for the Certified Associate Python Programmer (PCAP) exam.

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/certificates/python-certification



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Course Outline

This package includes these courses

Python for Data Science Bootcamp (30 Hours)

Attend one of the courses below for free as part of this certificate. Choose your date after you register for the program.

- Python for AI: Create AI Apps with Flask & OpenAI
- Python Machine Learning Bootcamp
- Python Data Visualization & Interactive Dashboards

Python for Data Science Bootcamp

- Learn Python fundamentals, including variables, data types, functions, loops, and control flow, for building robust programs
- Work with complex data structures such as dictionaries and lists to efficiently organize and access data
- Use NumPy and Pandas to import, clean, and manipulate datasets for analysis and exploration
- Generate descriptive statistics and apply filtering, grouping, and pivoting techniques to gain deeper insights
- Visualize data using Matplotlib and create clear, customized charts, including bar graphs, histograms, and scatter plots
- Gain the practical skills needed to transition into machine learning with a solid understanding of data science workflows