COURSE SYLLABUS

Python for Data Science Masterclass

Learn beginner and advanced Python programming skills for data science in this hands-on masterclass.

Group classes (NYC) and onsite training are available for this course.
For more information, email corporate@nobledesktop.com or visit:
https://www.nobledesktop.com/classes/python-data-science-masterclass



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Course Outline

This package includes these courses

- Python for Data Science Bootcamp (30 Hours)
- Advanced Python for Data Science Bootcamp (30 Hours)

Python for Data Science Bootcamp

Build a strong foundation in Python programming and data analysis through real-world projects that prepare you for advanced topics like machine learning and predictive modeling.

- Learn Python fundamentals, including variables, data types, functions, loops, and control flow for building robust programs
- Work with complex data structures like 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 for deeper insights
- Visualize data with Matplotlib and create clear, customized charts such as bar graphs, histograms, and scatter plots
- Gain the practical skills needed to transition into machine learning with a solid understanding of data science workflows

Advanced Python for Data Science Bootcamp

Dive into higher-level Python and data science skills in this advanced bootcamp. Learn advanced functions, work with JSON data and APIs, perform regression analysis, create animated data visualizations, and much more.

- Learn advanced Python programming and data science techniques & tools
- Work with advanced functions like map() and filter()
- Integrate nested loops & global variables into your coding
- Use Jupyter Notebook's interactive UI elements & integrate SQL
- Perform linear & polynomial regression analysis
- Create visualizations to display data efficiently and extract data from online sources with web scraping