FREE COURSE

Introduction to Python for Data Science (Microsoft)

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🕐 0 hours

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</> 75 Exercises

👥 39,430 Participants

🗄 6,750 XP

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Data Science Instructor at DataCamp

Filip is the passionate developer behind several of DataCamp's interactive courses, covering both R and Python. Under the motto 'Eat your own dog food', he has used the techniques DataCamp teaches its students to perform data analysis for DataCamp. Filip holds degrees in Electrical Engineering and Artificial Intelligence.

Course Description

Labs for Introduction to Python for Data Science.

1 Hello Python

100% ▬▬▬▬▬▬

Lab Exercises on Hello Python.

</> The Python Interface	✓ 100 xp
☰ When to use Python?	✓ 50 xp
</> Any comments?	✓ 100 xp
</> Python as a calculator	✓ 100 xp

HIDE CHAPTER DETAILS ⌃

✓ Completed

2 Variables & Types

100% ━━━━━━

Lab exercises on Variables & Types.

</>	Variable Assignment	✓ 100 xp
</>	Calculations with variables	✓ 100 xp
</>	Other variable types	✓ 100 xp
☰	Guess the type	✓ 50 xp
</>	Operations with other types	✓ 100 xp
</>	Type conversion	✓ 100 xp
☰	Can Python handle everything?	✓ 50 xp

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✓ Completed

3 Lists

100% ━━━━━━

Lab exercises on Lists.

</>	Create a list	✓ 100 xp
</>	Create list with different types	✓ 100 xp
☰	Select the valid list	✓ 50 xp
</>	List of lists	✓ 100 xp

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✓ Completed

4 Subsetting Lists

100% ━━━━━━

Lab exercises on Subsetting Lists.

</>	Subset and conquer	✓ 100 xp
</>	Subset and calculate	✓ 100 xp
</>	Slicing and dicing	✓ 100 xp
</>	Slicing and dicing (2)	✓ 100 xp

≡ Subsetting lists of lists		✓ 50 xp

HIDE CHAPTER DETAILS ⌃

✓ Completed

5 **List Manipulation**

100% ▬▬▬▬

Lab exercises on List Manipulation.

</> Replace list elements		✓ 100 xp
</> Extend a list		✓ 100 xp
≡ Delete list elements		✓ 50 xp
</> Inner workings of lists		✓ 100 xp

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✓ Completed

6 **Functions**

100% ▬▬▬▬

Lab exercises on Functions.

</> Familiar functions		✓ 100 xp
≡ Help!		✓ 50 xp
</> Multiple arguments		✓ 100 xp

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✓ Completed

7 **Methods**

100% ▬▬▬▬

Lab exercises on Methods.

</> String Methods		✓ 100 xp

List Methods ✓ 100 xp

List Methods (2) ✓ 100 xp

✓ Completed

8 Packages

100%

Lab Exercises on Packages.

Import package ✓ 100 xp

Selective import ✓ 100 xp

Different ways of importing ✓ 50 xp

✓ Completed

9 Numpy

100%

Lab exercises on Numpy.

Your First Numpy Array ✓ 100 xp

Baseball players' height ✓ 100 xp

Baseball player's BMI ✓ 100 xp

Lightweight baseball players ✓ 100 xp

Numpy Side Effects ✓ 50 xp

Subsetting Numpy Arrays ✓ 100 xp

✓ Completed

10 2D Numpy Arrays

100%

Lab exercises on 2D Numpy Arrays.

</> Your First 2D Numpy Array	✓ 100 xp
</> Baseball data in 2D form	✓ 100 xp
</> Subsetting 2D Numpy Arrays	✓ 100 xp
</> 2D Arithmetic	✓ 100 xp

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✓ Completed

11 **Numpy Basic Statistics**

100% ━━━━━

Lab exercises on Numpy Basic Statistics.

</> Average versus median	✓ 100 xp
</> Explore the baseball data	✓ 100 xp
</> Blend it all together	✓ 100 xp

HIDE CHAPTER DETAILS ^

✓ Completed

12 **Basic Plots with matplotlib**

100% ━━━━━

Lab exercises on Basic Plots with matplotlib.

</> Line plot (1)	✓ 100 xp
☰ Line Plot (2): Interpretation	✓ 50 xp
</> Line plot (3)	✓ 100 xp
</> Scatter Plot (1)	✓ 100 xp
</> Scatter plot (2)	✓ 100 xp

HIDE CHAPTER DETAILS ^

✓ Completed

13 Histograms.

100% ▬▬▬▬▬▬

Lab exercises on Histograms.

</> Build a histogram (1)	✓ 100 xp
</> Build a histogram (2): bins	✓ 100 xp
</> Build a histogram (3): compare	✓ 100 xp
☰ Choose the right plot (1)	✓ 50 xp
☰ Choose the right plot (2)	✓ 50 xp

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✓ Completed

14 Customization

100% ▬▬▬▬▬▬

Lab exercises on Customization.

</> Labels	✓ 100 xp
</> Ticks	✓ 100 xp
</> Sizes	✓ 100 xp
</> Colors	✓ 100 xp
</> Additional Customizations	✓ 100 xp
☰ Interpretation	✓ 50 xp

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✓ Completed

15 Boolean Logic & Control Flow

100% ▬▬▬▬▬▬

Lab exercises on Boolean Logic & Control Flow.

</> Equality	✓ 100 xp
</> Greater and less than	✓ 100 xp
and, or, not (1)	✓ 100 xp

and, or, not (2) ✓ 50 xp

Warmup ✓ 50 xp

if ✓ 100 xp

Add else ✓ 100 xp

Customize further: elif ✓ 100 xp

HIDE CHAPTER DETAILS ⌃

✓ Completed

16 **Pandas**

100% ▬▬▬▬▬▬▬

Lab exercises on Pandas.

CSV to DataFrame (1) ✓ 100 xp

CSV to DataFrame (2) ✓ 100 xp

Square Brackets ✓ 100 xp

loc (1) ✓ 100 xp

loc (2) ✓ 100 xp

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✓ Completed

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