Python for Data Scientist

Introductory Course

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Goal:

learn python and prepare to use in data science projects

Requirements: Windows 10 or Linux Ubuntu with PyCharm Community Edition IDE with JetBrains Academy plugin installed

python 3.10 with the following packages installed

wrapt\_timeout\_decorator  
 comments  
 numpy  
 pandas  
 networkx  
 torch  
 streamlit

Curriculum:

Class 1 Intro Pycharm IDE and Debugging

Class 2 Variables and Strings

Class 3 Data structures

Class 4 Conditional expressions and Loops

Class 5 Functions

Class 6 Classes and Objects. Modules and Packages

Class 7 File IO

Class 8 UI with Streamlit

Class 9 Advanced Data Structures: Arrays with NumPy

Class 10 DataFrames with pandas, polars and datafusion

Class 11 Tensors with pytorch

Class 12 Graphs with networkx

the class source code is here [petacube/intro\_to\_python\_class (github.com)](https://github.com/petacube/intro_to_python_class)

available to students and content providers