

SKILL FULL
Developer
★★★★★

PYTHON



PROGRAMMING



Python Syllabus

PYTHON BASIC



What is Python and history of Python?



Unique features of Python



Install Python and Environment Setup



Code editors and IDEs overview



First Python Program



Python Identifiers, Keywords and Indentation



Comments and document interlude in Python



Python Syllabus

PYTHON BASIC



Use JupyterLab and Jupyter Notebooks



Command line arguments



Getting User Input and Environment Setup



What are variables?



Python Core objects and Functions



Use Colab



Use VS Code

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PYTHON DATA TYPES



Explain the principles of data structures & how they are used



Create programs that are able to read and write data from files



Store data as key/value pairs using Python dictionaries



Accomplish multi-step tasks like sorting or looping using tuples



Expressions, numbers, and type conversions



Defining Functions



Returning Values & Comparing things

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INTRODUCTION TO LOOPS



What is a while loop?



Branching with if Statements



else Statements & elif Statements



Explore Python syntax



Review: Data types



Annotating variables by type



Annotating variables by type

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INTRODUCTION TO LOOPS



Review: Expressions, numbers, and type conversions



Logical Operators



What is a for loop?



More for loop examples



Nested for Loops



Common Errors in for Loops

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(List, Ranges & Tuples in Python)



Introduction



Lists in Python



More about Lists



Generators, Comprehensions and
Lambda Expressions



Generators and Yield



Next and Ranges



Understanding and using Ranges

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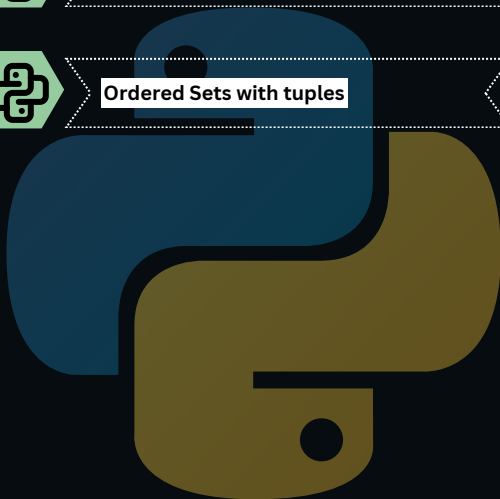
(List, Ranges & Tuples in Python)



More About Ranges



Ordered Sets with tuples



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(Python built in function)



Python user defined functions



Python packages functions



Defining and calling Function



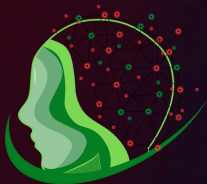
The anonymous Functions



Loops and statement in Python



Python Modules & Packages



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