

DSA

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SELECTED LANGUAGE

Python

REASON: Will help us in AI/ML

ULTIMATE Python DSA ROADMAP

STEP - 1

Learn Python Basics

- Syntax 3 Basic Construct
 - Variables, Data Types 3 Type casting
 - Basic I/O (input/output)
 - Operators (arithmetic, logical 3 comparison)
- Control Structures
 - Conditional statements (if, elif, else)
 - Loops (for, while), break, continue
- Functions 3 Scope
 - Functions, Parameters, return values
 - Global vs local scope

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- String Manipulation
 - string methods, slicing & formatting.

- Error Handling
 - Try, Except, Finally

- Basic File Handling
 - Read / Write to files
- Complexities (Time & Space)

STEP-II (LEARN BASIC DATA STRUCTURES)

- Arrays
- Lists : Built-In
- Dictionaries : Data
- Sets : Structures
- Tuples
- Deque
- Heap

STEP 3 (LEARN BASIC ALGOS)

- Very Basic (isPrime(), Max(), recursion etc)
- Sorting (Bubble, selection, insertion, Merge, Quick)
- Searching (Linear, Binary)
- Two-Pointer technique
- Sliding window

STEP 4 (LEARN ADVANCED DATA STRUCTURES)

- Linked List
- Stacks
- Queues
- Hashing
- Trees
- Graphs
- Dynamic Programming

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STEP - 5 (START LEETCODING)

- Proper shared Github repositories

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