Python + DSA for Placement - Complete Guide

PART 1: How Much Python is Required

Only Core Python is needed for placements. No need for libraries like NumPy/Pandas.

Topics to cover:

- Basics: Variables, Data Types, Input/Output, Loops
- Functions: Arguments, Return, Recursion, Lambda
- Strings: Slicing, Operations, String methods
- Lists, Tuples, Sets, Dicts
- Comprehensions: List, Set, Dict
- Built-ins: map(), filter(), zip(), enumerate()
- OOP (basic): Class, Object, __init__, self
- Exception Handling: try, except blocks
- Modules: math, random, collections, itertools

Time Needed: 2 weeks (1.52 hours/day)

PART 2: DSA Roadmap (3 Phases)

DSA is crucial for placements. Focus on concepts + solving company-level problems.

Phase 1: Basics (Week 14)

- Arrays, Strings, Hashing, Recursion, Sorting, Searching

Phase 2: Intermediate (Week 58)

- Linked Lists, Stack/Queue, Trees, BST, Sliding Window, Two Pointers, Prefix Sum

Phase 3: Advanced (Week 912)

- Graphs, Heaps, Greedy, DP, Tries, Backtracking

Total Time Needed: 3 Months Max (24 hrs/day)

Fast-track: 22.5 Months (56 hrs/day)

PART 3: Resume + Resources

Resume for DSA + Python Profile:

- Contact Info (LinkedIn, GitHub, LeetCode)
- Summary: Focus on Python + DSA
- Projects: DSA visualizer, Linked List sim, etc.
- Skills: Python, Data Structures, Algorithms
- Achievements: 100+ DSA problems, LeetCode rank

PDFs to Study:

- LeetCode 75 Patterns
- NeetCode Roadmap
- Python Syntax Cheatsheet
- Resume Template (Customizable)

Reply 'Send PDF Pack & Roadmap' to get all!