

6-Month Python Daily Checklist (Printable)

Daily Rule (Tick all):

- ☐ Studied concept (30–45 min)
 - ☐ Wrote code manually (90–120 min)
 - ☐ No copy-paste without understanding
 - ☐ Notes updated
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◆ MONTH 1 – Foundations (Days 1–30)

Week 1 – Basics

- ☐ Day 1: Install Python, VS Code, print(), comments
 - ☐ Day 2: Variables & data types
 - ☐ Day 3: Operators
 - ☐ Day 4: Input & type casting
 - ☐ Day 5: if / elif / else
 - ☐ Day 6: Practice problems (calculator, grading)
 - ☐ Day 7: Rewrite all from memory
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Week 2 – Loops & Logic

- ☐ Day 8: for loop
 - ☐ Day 9: while loop
 - ☐ Day 10: break / continue / pass
 - ☐ Day 11: Nested loops
 - ☐ Day 12: Pattern problems
 - ☐ Day 13: Mini project – Number guessing game
 - ☐ Day 14: Debug & refactor
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Week 3 – Data Structures

- ☐ Day 15: Lists
- ☐ Day 16: List methods & slicing

- ☐ Day 17: Tuples & Sets
 - ☐ Day 18: Dictionaries
 - ☐ Day 19: Dictionary problems
 - ☐ Day 20: Mixed DS problems
 - ☐ Day 21: Mini project – Student record system
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Week 4 – Functions & Files

- ☐ Day 22: Functions
 - ☐ Day 23: Parameters & return
 - ☐ Day 24: Scope (local/global)
 - ☐ Day 25: File handling
 - ☐ Day 26: try / except
 - ☐ Day 27: Mini project – File-based To-Do app
 - ☐ Day 28: Revise basics
 - ☐ Day 29: Rewrite all projects
 - ☐ Day 30: Cleanup & GitHub push
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◆ MONTH 2 – Core Python (Days 31–60)

OOP (Critical)

- ☐ Day 31: Why OOP
- ☐ Day 32: Classes & objects
- ☐ Day 33: Constructors
- ☐ Day 34: Methods & attributes
- ☐ Day 35: Encapsulation
- ☐ Day 36: Inheritance
- ☐ Day 37: Polymorphism
- ☐ Day 38: Banking system – design
- ☐ Day 39: Banking system – code
- ☐ Day 40: Banking system – refactor

Modules & Environment

- ☐ Day 41: Modules
- ☐ Day 42: Packages
- ☐ Day 43: Virtual environments
- ☐ Day 44: pip & libraries
- ☐ Day 45: Library system – design
- ☐ Day 46: Library system – code
- ☐ Day 47: Library system – cleanup

Data Handling

- ☐ Day 48: CSV
- ☐ Day 49: JSON
- ☐ Day 50: Date & time
- ☐ Day 51: Logging
- ☐ Day 52: Expense tracker – design
- ☐ Day 53: Expense tracker – code
- ☐ Day 54: Expense tracker – test
- ☐ Day 55–60: Full revision & refactoring

◆ MONTH 3 – Advanced Python (Days 61–90)

Pythonic Features

- ☐ Day 61: List comprehensions
- ☐ Day 62: Dict & set comprehensions
- ☐ Day 63: Lambda functions
- ☐ Day 64: map / filter / reduce
- ☐ Day 65: Iterators & generators

Deep Concepts

- ☐ Day 66: Decorators
 - ☐ Day 67: *args & **kwargs
 - ☐ Day 68: Regular expressions
 - ☐ Day 69: Memory & references
 - ☐ Day 70: Garbage collection
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APIs & Automation

- ☐ Day 71: HTTP basics
 - ☐ Day 72: requests library
 - ☐ Day 73: API authentication
 - ☐ Day 74: Web scraping
 - ☐ Day 75: Scraper project – design
 - ☐ Day 76: Scraper – code
 - ☐ Day 77: Scraper – analysis
 - ☐ Day 78: Scraper – optimize
 - ☐ Day 79–90: Rewrite & testing
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◆ MONTH 4 – Software-Level Python (Days 91–120)

Testing & Debugging

- ☐ Day 91: Debugging strategies
 - ☐ Day 92: Unit testing
 - ☐ Day 93: Writing test cases
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Databases

- ☐ Day 94: SQL basics
- ☐ Day 95: SQLite with Python
- ☐ Day 96: CRUD operations
- ☐ Day 97: DB project – design
- ☐ Day 98: DB project – code

- ☐ Day 99: DB project – test
 - ☐ Day 100: DB project – refactor
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Performance & Concurrency

- ☐ Day 101: Time complexity
 - ☐ Day 102: Profiling
 - ☐ Day 103: Multithreading
 - ☐ Day 104: Multiprocessing
 - ☐ Day 105: Automation project – design
 - ☐ Day 106–110: Automation – code
 - ☐ Day 111–120: Cleanup + GitHub
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◆ MONTH 5 – Specialization (Days 121–150)

- ☐ Day 121: Choose ONE specialization
 - ☐ Day 122–130: Learn core tools
 - ☐ Day 131–140: Major project
 - ☐ Day 141–145: Optimization
 - ☐ Day 146–150: Documentation & testing
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◆ MONTH 6 – Advanced & Job-Ready (Days 151–180)

- ☐ Day 151–155: Capstone project – design
- ☐ Day 156–160: Capstone – build
- ☐ Day 161–165: Security & error handling
- ☐ Day 166–170: Performance tuning
- ☐ Day 171–175: Portfolio & GitHub
- ☐ Day 176–180: Interview prep & revision