🐍 30 Days Python Roadmap 🚀

👉 Follow this roadmap daily, and in just **30 days you'll master Python basics to advanced!**

📅 Week 1: Python Basics (Day 1–7)

- Day 1: Install Python & IDE (VS Code / PyCharm / Jupyter Notebook)

- Day 2: Print, Variables & Data Types

- Day 3: Strings & String Functions

- Day 4: Input, Type Casting & Operators

- Day 5: Lists & Tuples

- Day 6: Sets & Dictionaries

- Day 7: If-Else & Loops (for, while)

📅 Week 2: Intermediate Python (Day 8–14)

- Day 8: Functions (def, return, parameters)

- Day 9: Recursion & Lambda Functions

- Day 10: File Handling (read, write, append)

- Day 11: Exception Handling (try, except, finally)

- Day 12: Modules & Packages (math, random, OS)

- Day 13: List Comprehension

- Day 14: Mini Project – Calculator / To-Do List

📅 Week 3: Advanced Python (Day 15–21)

- Day 15: OOPs Concepts (Class & Objects)

- Day 16: Constructors & Destructors

- Day 17: Inheritance & Polymorphism

- Day 18: Encapsulation & Abstraction

- Day 19: Iterators & Generators

- Day 20: Decorators

- Day 21: Mini Project – Student Management System

📅 Week 4: Real Projects + Libraries (Day 22–30)

- Day 22: Numpy Basics

- Day 23: Pandas Basics

- Day 24: Matplotlib (Data Visualization)

- Day 25: Web Scraping with BeautifulSoup

- Day 26: APIs & JSON Handling

- Day 27: Tkinter (GUI Apps)

- Day 28: Mini Project – Weather App / Quiz App

- Day 29: Final Project – Face Recognition OR Stock Price Predictor

- Day 30: Revision + Build Portfolio on GitHub

🔥 Best Youtube Channels for Python Learning

📌 Python Tutorial For Beginners in Hindi | Complete Python Course 🔥
▶️ https://youtu.be/UrsmFxEIp5k?si=NgXAOrzAM8TKZu6x

📌 Python Full Course in Hindi | Beginner to Advanced | Amit Thinks
▶️ https://youtu.be/b97WsOM9BYg?si=DMkA8j3dlpZknghc

📌 Harvard CS50's Introduction to Programming with Python 🎓
▶️ https://youtu.be/nLRL_NcnK-4?si=SlJherYkJywRtvYJ

📌 Python Full Course For Beginners [Tutorial] 2023 | Python One Shot ⚡
▶️ https://youtu.be/XnSasPR2KJI?si=4O2rsHeYCdNez0UO

📌 Python Full Course for Beginners [2025] 🚀
▶️ https://youtu.be/K5KVEU3aaeQ?si=Sc-TP71vRjY7sGNc

📌 PYTHON TUTORIAL FOR BEGINNERS IN 11 HOURS (in ENGLISH) 🌍
▶️ https://youtu.be/u3zj0GfLoP8?si=fNxK4_V6HN4q_lh

📌 Python - Basic to Advance by Jenny's Lectures CS IT 📖
▶️
https://youtube.com/playlist?list=PLdo5W4Nhv31bZSiqiOL5ta39vSnBxpOPT&si=zKbZolJzJi
vMRiq0

📚 Best Websites to Learn Python

1. **W3Schools** – https://www.w3schools.com/python/

Programiz – https://www.programiz.com/python-programming

GeeksForGeeks – https://www.geeksforgeeks.org/python/

Real Python – https://realpython.com/

Kaggle (for Data Science Projects) – https://www.kaggle.com/

📱 Best Apps for Python Learning

SoloLearn (Interactive Python lessons)

Mimo (Quick daily coding practice)

Programming Hub (Great for beginners)

Py (Gamified coding experience)

Kaggle App (Practice real-world projects)