PYTHON
ROADMAP

Day 1-5: Introduction to Python

- Day 1: Get Python installed on your computer. You can use Anaconda, Python's official website, or a code editor like Visual Studio Code.

- Day 2-3: Learn about Python's syntax, variables, data types, and basic input/output.

- Day 4-5: Explore Python's basic control structures: if statements, loops (for and while), and functions.

Day 6-10: Data Structures

- Day 6-7: Study Python's built-in data structures: lists, tuples, and dictionaries.
- Day 8-10: Understand how to manipulate and iterate through these data structures effectively.

Day 11-15: Object-Oriented Programming (OOP)

- Day 11-12: Learn the fundamentals of OOP in Python, including classes, objects, attributes, and methods.
- Day 13-15: Practice creating and using classes and objects to solve problems.
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Day 16-20: File Handling and Exception Handling

- Day 16-17: Explore reading and writing files in Python.
- Day 18-20: Understand exception handling and how to use try-except blocks.

Day 21-25: Python Libraries

- Day 21-22: Study NumPy for numerical operations and arrays.
- Day 23-24: Explore Pandas for data manipulation and analysis.
- Day 25: Learn about Matplotlib or Seaborn for data visualization.
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Day 26-30: Web Development with Flask (Optional)

- Day 26-27: Install Flask and create a simple web application.
- Day 28-29: Add routes, templates, and forms to your Flask app.
- Day 30: Deploy your Flask app on a cloud platform (e.g., Heroku) or a web host.