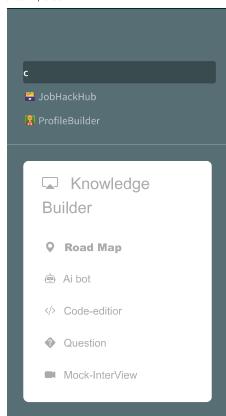
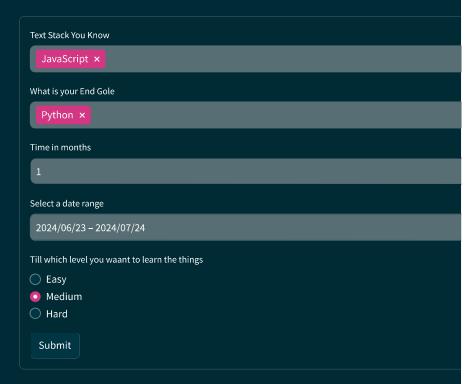
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Get your persanalised Road Map



Roadmap to Learn Python in 1 Month (Medium Level)

Assumptions:

- Starting level: Knowledgeable in JavaScript
- End goal: Medium proficiency in Python
- Timeframe: 1 month

Resources:

- YouTube Channels:
 - <u>Derek Banas</u>
 - Corey Schafer
 - <u>Python Programming Tutorials</u>

Timeline:

Week 1:

- Day 1-2: Python Basics
 - o Data types, variables, and operators
 - Control flow (if statements, loops)
 - Time: 4 hours
- Day 3-4: Functions and Modules
 - Defining and calling functions
 - Using modules to import external code
 - Time: 4 hours
- Day 5-7: Object-Oriented Programming
 - Classes, inheritance, and polymorphism
 - o Time: 6 hours

Week 2:

- Day 1-2: File Handling and Data Structures
 - Reading and writing to files
 - Using lists, tuples, and dictionaries

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- Time: 4 hours
- Day 3-4: Exception Handling and Error Management
 - Handling errors and exceptions
 - Using try/except blocks
 - Time: 4 hours
- Day 5-7: Python for Data Analysis
 - Using libraries such as NumPy and Pandas
 - Data cleaning, manipulation, and visualization
 - o Time: 6 hours

Week 3:

- Day 1-2: Advanced Data Structures
 - Sets, stacks, and queues
 - o Time: 4 hours
- Day 3-4: Web Development with Python
 - Django or Flask frameworks
 - Creating basic web applications
 - o Time: 4 hours
- Day 5-7: Machine Learning with Python
 - Overview of machine learning concepts
 - Using libraries such as scikit-learn
 - Time: 6 hours

Week 4:

- Day 1-2: Code Review and Practice
 - Review all concepts covered
 - Practice coding exercises
 - Time: 4 hours
- Day 3-4: LeetCode Problems
 - Solve LeetCode problems to reinforce concepts
 - Start with easy problems and gradually increase difficulty
 - o Time: 4 hours
- Day 5-7: Project Development
 - Build a small Python project to apply your skills
 - Use resources and ask for help when needed
 - Time: 6 hours

Time Allocation:

- Daily study time: 2-3 hours
- Total time: 80-120 hours

Tips:

- Practice Regularly: Solve coding exercises daily to reinforce concepts.
- Use Online Resources: Utilize online tutorials, forums, and documentation to supplement your
- Seek Help: Don't hesitate to ask questions or seek assistance when needed.
- Break Down Tasks: Divide large concepts into smaller chunks to make learning manageable.
- Stay Motivated: Set achievable goals and reward yourself for progress.

Good luck on your Python learning journey! 🤏 💂