

python interview questions

python interview questions are essential for candidates preparing to demonstrate their programming skills and understanding of Python in job interviews. Python, being one of the most popular programming languages, is widely used across various domains such as web development, data science, automation, and artificial intelligence. This article covers a comprehensive range of python interview questions that employers frequently ask, from basic syntax and data structures to advanced concepts and best practices. Understanding these questions and their answers helps candidates effectively showcase their expertise and problem-solving abilities. The following sections provide an in-depth exploration of these questions, categorized into fundamental, intermediate, and advanced levels to suit different experience stages. Additionally, common coding challenges and tips for answering python interview questions are discussed for well-rounded preparation.

- Basic Python Interview Questions
- Intermediate Python Interview Questions
- Advanced Python Interview Questions
- Common Coding Challenges in Python Interviews
- Tips for Answering Python Interview Questions

Basic Python Interview Questions

Basic python interview questions evaluate a candidate's foundational knowledge of the language. These questions typically cover syntax, data types, control structures, and fundamental programming concepts.

Python Data Types and Variables

Understanding the primary data types in Python is crucial. Candidates are expected to identify and explain types such as integers, floats, strings, lists, tuples, sets, and dictionaries. Variables in Python do not require explicit declaration, and their types are inferred dynamically.

Control Flow Statements

Questions often focus on the use of conditional statements like *if*, *elif*, and *else*, as well as loops including *for* and *while*. Candidates should explain how these constructs control the program's execution flow.

Functions and Scope

Interviewers frequently ask about defining functions using the *def* keyword, the concept of return values, and variable scope such as local and global. Understanding default and keyword arguments is also beneficial.

Examples of Basic Questions

- What are Python's key features?
- How do you create a list and access its elements?
- Explain the difference between a list and a tuple.
- What is the purpose of the `pass` statement?
- How do you handle errors using try-except blocks?

Intermediate Python Interview Questions

Intermediate python interview questions assess a deeper understanding of language features, object-oriented programming, modules, and commonly used libraries. These questions test the ability to write efficient and maintainable code.

Object-Oriented Programming (OOP) Concepts

Candidates should explain classes and objects, inheritance, encapsulation, and polymorphism. Practical questions may involve creating classes, defining methods, and understanding the use of *self* and constructors.

Python Modules and Packages

Understanding how to import modules, use built-in libraries, and create packages is essential. Candidates might be asked about the differences between `import module` and `from module import function`.

File Handling and Exceptions

Intermediate questions often involve reading from and writing to files, managing file modes, and handling exceptions gracefully to avoid program crashes.

Examples of Intermediate Questions

- Explain the difference between shallow copy and deep copy.
- What are decorators and how are they used?
- How does Python manage memory?
- Describe list comprehensions and provide examples.
- What is the Global Interpreter Lock (GIL)?

Advanced Python Interview Questions

Advanced python interview questions challenge candidates on performance optimization, concurrency, metaprogramming, and understanding of Python internals. These questions are aimed at experienced developers.

Generators and Iterators

Candidates should demonstrate knowledge of creating custom iterators and generators using `yield`, understanding lazy evaluation, and the differences between iterators and generators.

Concurrency and Parallelism

Understanding multithreading, multiprocessing, and asynchronous programming using libraries such as `threading`, `multiprocessing`, and `asyncio` is critical for advanced roles.

Metaclasses and Decorators

Advanced questions may cover how metaclasses work, their use cases, and the internal workings of decorators beyond basic function wrapping.

Examples of Advanced Questions

- How do you optimize Python code for better performance?
- Explain the difference between `@staticmethod` and `@classmethod`.
- What are coroutines in Python?

- How does garbage collection work in Python?
- Describe the Python memory model and reference counting.

Common Coding Challenges in Python Interviews

In addition to theoretical questions, coding challenges are a key component of python interview questions. These problems test algorithmic thinking, data structure manipulation, and code efficiency.

Typical Problem Types

Common challenges include string manipulation, array and list operations, recursion, searching and sorting algorithms, and working with dictionaries and sets.

Sample Coding Problems

- Reverse a string without using built-in functions.
- Find the factorial of a number using recursion.
- Check if a given string is a palindrome.
- Merge two sorted lists into a single sorted list.
- Find the most frequent element in a list.

Tips for Answering Python Interview Questions

Effective preparation and communication are key to successfully answering python interview questions. Understanding the question, clarifying doubts, and structuring answers clearly contribute to a positive impression.

Best Practices

- Write clean, readable code adhering to PEP 8 style guidelines.
- Explain your thought process aloud during coding challenges.

- Practice common algorithms and Python built-in functions.
- Be familiar with Python's standard library and its utilities.
- Prepare examples from past projects to demonstrate practical experience.

Handling Difficult Questions

If faced with unfamiliar questions, it is advisable to discuss related concepts or ask clarifying questions. Demonstrating problem-solving skills and a willingness to learn is valuable to interviewers.

Frequently Asked Questions

What are Python's key features?

Python is an interpreted, high-level, dynamically typed, and garbage-collected programming language. It supports multiple programming paradigms, including procedural, object-oriented, and functional programming.

How is memory managed in Python?

Python uses a private heap space to manage memory, where all Python objects and data structures are stored. Memory management is handled by the Python memory manager and includes an inbuilt garbage collector to recycle unused memory.

What are Python decorators and how do you use them?

Decorators are functions that modify the behavior of other functions or methods. They are applied using the '@decorator_name' syntax above the function definition to add functionality without changing the original function's code.

Explain the difference between list and tuple in Python.

Lists are mutable, meaning their elements can be changed, added, or removed. Tuples are immutable, so once created, their elements cannot be modified. Tuples are generally faster and can be used as keys in dictionaries.

What is the Global Interpreter Lock (GIL) in Python?

The GIL is a mutex that protects access to Python objects, preventing multiple native threads from executing Python bytecodes simultaneously. This means Python threads are not fully concurrent in CPU-bound tasks.

How do you handle exceptions in Python?

Exceptions are handled using try-except blocks. The 'try' block contains code that may raise exceptions, and the 'except' block catches and handles the exceptions to prevent the program from crashing.

What are Python generators and how do they differ from lists?

Generators are iterators that yield items one at a time using the 'yield' keyword, which allows for lazy evaluation and saves memory. Unlike lists, generators do not store all items in memory.

Explain list comprehensions with an example.

List comprehensions provide a concise way to create lists. For example, `[x*x for x in range(5)]` generates a list of squares: `[0, 1, 4, 9, 16]`.

What is the difference between 'is' and '==' in Python?

'==' compares the values of two objects to check for equality, whereas 'is' checks whether two references point to the same object in memory.

How do you manage packages and dependencies in Python?

Packages and dependencies are managed using tools like pip for installing packages, and virtual environments (venv, virtualenv) to create isolated Python environments for projects.

Additional Resources

1. *Cracking the Python Coding Interview*

This book offers a comprehensive collection of Python interview questions commonly asked by top tech companies. It includes detailed solutions and explanations, helping readers understand underlying concepts. The book also covers data structures, algorithms, and problem-solving techniques tailored for Python developers.

2. *Python Interview Questions and Answers*

Designed for both beginners and experienced developers, this book compiles essential interview questions with clear, concise answers. It delves into Python fundamentals, object-oriented programming, and advanced topics such as decorators and generators. The book is a great resource for quick revision before interviews.

3. *Mastering Python Interview Challenges*

This title focuses on challenging Python problems frequently encountered during technical interviews. It emphasizes practical coding exercises and real-world scenarios to hone problem-solving skills. Readers will find tips on optimizing code and writing efficient Python programs.

4. *Effective Python Interview Preparation*

A practical guide that helps candidates prepare for Python interviews by covering a broad spectrum of topics. It includes coding exercises, theoretical questions, and common pitfalls to avoid. The book also offers advice on how to approach coding interviews and communicate solutions effectively.

5. *Python Coding Interview Guide*

This guide systematically explores Python coding interview questions, emphasizing algorithmic thinking and data structure manipulation. It provides step-by-step solutions and performance analysis for each problem. Ideal for developers aiming to sharpen their coding proficiency in Python.

6. *Advanced Python Interview Questions*

Targeted at experienced Python developers, this book covers advanced concepts such as concurrency, memory management, and design patterns. It presents complex interview questions with in-depth explanations and best practices. The content prepares readers for high-level technical interviews.

7. *Python Data Structures and Algorithms Interview Questions*

This book specializes in data structures and algorithms using Python, a critical area for technical interviews. It explains key concepts with code examples and solves typical interview problems. The book is useful for mastering algorithmic challenges in Python.

8. *Python Programming Interview Exposed*

This resource reveals common traps and misunderstandings in Python programming interviews. It includes a wide range of questions from syntax and language features to coding problems. The book encourages a deep understanding of Python to tackle interview questions confidently.

9. *Real-World Python Interview Questions*

Focusing on practical applications, this book presents Python interview questions based on real-world projects and scenarios. It highlights the application of Python in web development, data science, and automation tasks. Readers gain insights into how Python skills are tested in various industry roles.

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python interview questions: Python Interview Questions and Answers Maxwell Rivers, 2023-09-24 Python Interview Questions and Answers: 50 Essential Questions to Ace Coding Interviews Are you gearing up for a Python coding interview? Python is one of the most versatile and sought-after programming languages, and acing your Python interview is key to landing that dream job. Python Interview Questions and Answers is your comprehensive guide to mastering Python concepts, solving complex problems, and impressing interviewers with your coding skills.

python interview questions: Python Interview Questions Meenu Kohli, 2019-09-19 Prepares yourself for coding related interview questions DESCRIPTION The book is written assuming that the reader has basic knowledge of Python programming. A brief introduction is provided for all relevant topics. Every topic is followed by all types of possible questions that an examiner or interviewer can ask the reader. The questions are arranged chapter wise so that it is easy for the reader to move from easy to complex questions. KEY FEATURES Strengthens the foundations. Lists down all important points that you need to know related to various topics in an organized manner. Prepares you with questions related to Algorithms and Data structures. Prepares you for theoretical questions. Provides In depth explanation of complex topics and Questions. Focuses on how to think logically to solve a problem. Follows systematic approach that will help you to prepare for an interview in short duration of time. Prepares you to think logically and answer interview questions. WHAT WILL YOU LEARN Python Basics, Data Types and Their in-built Functions Operators, Decision Making and Loops User Defined Functions, Classes and Inheritance, Files Algorithm Analysis and Big-O, Array Sequence Stacks, Queues, and Deque, Linked List Recursion, Trees. Searching and Sorting WHO THIS BOOK IS FOR Graduate, Post graduate, Academicians, Educationists, Professionals. Table of Contents SECTION I : PYTHON BASICS Introduction to Python Data Types and Their in-built Functions Operators in Python Decision Making and Loops User Defined Functions Classes and Inheritance Files SECTION II: PYTHON DATA STRUCTURE AND ALGORITHM Algorithm Analysis and Big-O Array Sequence Stacks, Queues, and Deque Linked List Recursion Trees Searching and Sorting

python interview questions: Python Interview Questions You'll Most Likely Be Asked Vibrant Publishers, 2011-06-01 This is a perfect companion to stand ahead above the rest in today's competitive job market. Rather than going through comprehensive, textbook-sized reference guides, this book includes only the information required immediately for job search to build an IT career. This book puts the interviewee in the driver's seat and helps them steer their way to impress the interviewer. Includes: 200 Python Interview Questions, Answers and Proven Strategies for getting hired as an IT professional; Dozens of examples to respond to interview questions; 51 HR Questions with Answers and Proven strategies to give specific, impressive, answers that help nail the interviews; 2 Aptitude Tests download available on www.vibrantpublishers.com.

python interview questions: Python Interview Questions, 2011

python interview questions: Python Interview Questions Swati Saxena, 2021

python interview questions: Top 50 Python Interview Questions and Answers Knowledge Powerhouse, 2017-01-30 Introduction: Python Interview Questions Python is a very popular language for Data Science and Machine learning projects. A lot of companies are looking for a software developers proficient in Python language. This book contains basic to expert level Python interview questions that an interviewer asks. Each question is accompanied with an answer so that you can prepare for job interview in short time. We have compiled this list after attending dozens of technical interviews in top-notch companies like- Google, Facebook, Netflix, Amazon etc. Often, these questions and concepts are used in our daily programming work. But these are most helpful when an Interviewer is trying to test your deep knowledge of Python. How will this book help me? By reading this book, you do not have to spend time searching the Internet for Python interview

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python interview questions: Python Interview Questions & Answers: Python

Programming Bandana Ojha, 2018-04-11 The authors of this book conducted so many interviews at various companies and meticulously collected the most effective python interview questions and answers with simple, straightforward explanations. Rather than going through comprehensive, textbook-sized python reference guides, this book includes only the information required immediately for python programming to start their career in information Technology industry. Answers of all the questions are short and to the point. We assure that you will get here the 90% frequently asked interview questions and answers.

python interview questions: Python Quick Interview Guide Shyamkant Limaye, 2021-04-10 Quick solutions to frequently asked algorithm and data structure questions. KEY FEATURES _ Learn how to crack the Data structure and Algorithms Code test using the top 75 questions/solutions discussed in the book. _ Refresher on Python data structures and writing clean, actionable python codes. _ Simplified solutions on translating business problems into executable programs and applications. DESCRIPTION Python is the most popular programming language, and hence, there is a huge demand for Python programmers. Even if you have learnt Python or have done projects on AI, you cannot enter the top companies unless you have cleared the Algorithms and data Structure coding test. This book presents 75 most frequently asked coding questions by top companies of the world. It not only focuses on the solution strategy, but also provides you with the working code. This book will equip you with the skills required for developing and analyzing algorithms for various situations. This book teaches you how to measure Time Complexity, it then provides solutions to questions on the Linked list, Stack, Hash table, and Math. Then you can review questions and solutions based on graph theory and application techniques. Towards the end, you will come across coding questions on advanced topics such as Backtracking, Greedy, Divide and Conquer, and Dynamic Programming. After reading this book, you will successfully pass the python interview with high confidence and passion for exploring python in future. WHAT YOU WILL LEARN _ Design an

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python interview questions: Python Interview Questions and Answers - English Navneet Singh, Here are some common Python interview questions along with their answers: What is Python? Python is a high-level, interpreted programming language known for its simplicity and readability. It supports multiple programming paradigms, including procedural, object-oriented, and functional programming. What are the key features of Python? Key features of Python include: Simple and easy-to-read syntax Dynamic typing and automatic memory management Extensive standard library Support for multiple programming paradigms. High-level data structures Portable and extensible What is PEP 8? PEP 8 is the Python Enhancement Proposal that provides guidelines for writing Python code to improve its readability and maintainability. It covers topics such as naming conventions, code layout, and programming practices. What are the differences between Python 2 and Python 3? Python 3 is the successor of Python 2 and includes several improvements and backwards-incompatible changes. Some key differences include: Print statement: In Python 2, it's a statement (print Hello), while in Python 3, it's a function (print(Hello)). Unicode support: Python 3 handles strings as Unicode by default, whereas Python 2 treats them as ASCII by default. Division operator: In Python 2, division of integers results in an integer, while in Python 3, it results in a float. xrange: Python 2 has xrange() for creating iterators, while Python 3 uses range() to achieve the same. What is a virtual environment in Python? A virtual environment is a self-contained directory that contains a Python installation for a particular version of Python, plus several additional packages. It allows you to work on a specific project without affecting the system-wide Python installation or other projects. Explain the difference between list and tuple in Python. Lists are mutable, meaning their elements can be modified after creation. Tuples, on the other hand, are immutable. Lists are created using square brackets ([]), while tuples are created using parentheses (). Lists have more built-in methods for manipulation, while tuples have fewer methods due to their immutability. What is the difference between '==' and 'is' in Python? '==' checks for equality of values, meaning it compares whether the values of two objects are the same. 'is' checks for identity, meaning it compares whether two objects refer to the same memory location. What is a decorator in Python? A decorator is a design pattern in Python that allows behaviour to be added to functions or classes dynamically. Decorators are written using the @decorator_name syntax and are applied using the @ symbol followed by the decorator name above the function definition. Explain the concept of list comprehension in Python. List comprehension is a concise way to create lists in Python. It consists of an expression followed by a for clause, then zero or more for or if clauses. It

allows you to create a new list by applying an expression to each item in an iterable. What is the difference between 'append()' and 'extend()' methods in Python lists? The append() method adds its argument as a single element to the end of a list. The extend() method takes an iterable (such as a list) and adds each element of the iterable to the list. These questions cover a range of topics commonly discussed in Python interviews, from basic syntax to more advanced concepts.

python interview questions: Data Science with Machine Learning Vishwanathan Narayanan, 2019-09-19 For beginners to level up Core Programming Skills DESCRIPTION The book 'Data science with Machine learning- Python interview questions' is a true companion of people aspiring for data science and machine learning and provides answers to mostly asked questions in an easy to remember and presentable form. Data science is one of the hottest topics mainly because of the application areas it is involved in and things which were once upon a time, impossible with earlier software have been made easy. This book is mainly intended to be used as last-minute revision, before an interview, as all the important concepts have been given in simple and understandable format. Many examples have been provided so that same can be used while giving answers in an interview. This book tries to include various terminologies and logic used both as a part of Data Science and Machine learning for last minute revision. As such you can say that this book acts as a companion whenever you want to go for an interview. Simple to use words have been used in the answers for the questions to help ease of remembering and representation of same. Examples wherever deemed necessary have been provided so that same can be used while giving answers in an interview. Author tried to consolidate whatever he came across, on multiple interviews that he attended and put the same in words so that it becomes easy for the reader of the book to give direction on how the interview would be. With the number of data science jobs increasing, Author is sure that everyone who wants to pursue this field would like to keep this book as a constant companion. KEY FEATURES Easy to learn, step by step explanation of examples. Questions related to core/basic Python, Excel, basic and advanced statistics are included. Covers numpy, scipy, sklearn and pandas to a greater detail with good number of examples WHAT WILL YOU LEARN You can learn the basic concept and terms related to Data Science You will get to learn how to program in python You can learn the basic questions of python programming By reading this book you can get to know the basics of Numpy You will get familiarity with the questions asked in an interview related to Pandas. You will learn the concepts of Scipy, Matplotlib, and Statistics with Excel Sheet WHO THIS BOOK IS FOR The book is intended for anyone who wishes to learn Python Data Science, Numpy, Pandas, Scipy, Matplotlib and Statistics with Excel Sheet. This book content also covers the basic questions which are asked during an interview. This book is mainly intended to help people represent their answer in a sensible way to the interviewer. The answers have been carefully rendered in a way to make things quite simple and yet represent the seriousness and complexity of matter. Since data science is incomplete without mathematics we have also included a part of the book dedicated to statistics. Table of Contents 1. Data Science Basic Questions and Terms 2. Python Programming Questions 3. Numpy Interview Questions 4. Pandas Interview Questions 5. Scipy and its Applications 6. Matplotlib Samples to Remember 7. Statistics with Excel Sheet

python interview questions: Python Multiprocessing Interview Questions Jason Brownlee, How well do you know Python multiprocessing? The multiprocessing module provides process-based concurrency in Python and few developers know about it, let alone, how to use it well. The main reason is because it is widely thought that Python does not fully support concurrency. This is false. In fact, processes provide the best path to full parallelism in Python for CPU-bound tasks. * Do you know how to start a new process? * Do you know how to use mutex locks with Python processes? * Do you know how to use a manager or a pool? Discover 180+ interview questions on Python multiprocessing. * Study the questions and answers and improve your skill. * Test yourself to see what you really know, and what you don't. * Select questions to interview developers on a new role. Prepare for an interview or test your Python multiprocessing skills today.

python interview questions: The Python Interview Playbook Konstantin Ryabichenko, 2024-11-08 Are you ready to take your Python interview preparation to the next level? The Python

Interview Playbook is your definitive guide to mastering every question with confidence, whether you're a junior developer looking to land your first job, a mid-level programmer aiming for a significant career step, or a senior engineer seeking to solidify your expertise. Why This Book Stands Out: Interviewing for a Python developer role can be daunting, especially given the range of topics interviewers can explore. From core concepts and Python coding challenges to advanced algorithms and design patterns, employers seek developers who demonstrate both technical skill and problem-solving prowess. This comprehensive playbook equips you with the knowledge and strategies to excel in any interview scenario and secure your dream job. What You'll Find Inside: Structured Content for All Levels: Whether you're just starting out or a seasoned pro, this book provides targeted preparation for junior, middle, and senior-level Python developers. Essential Python Knowledge: Detailed explanations of Python basics, such as data types, control structures, and built-in functions. Advanced Programming Techniques: Master object-oriented programming (OOP), functional programming, and exception handling to showcase your advanced capabilities. Python Coding Interview Prep: Tackle questions involving recursion, multithreading, data structures, and algorithms, and learn to write optimized, efficient code. Comprehensive Interview Questions and Answers: Gain insight from real-world Python job interview questions, complete with thorough explanations that show not just the how but the why. Hands-On Coding Challenges: Apply what you've learned with practical coding problems that simulate real interview conditions and test your critical thinking. Mock Interview Tips: Develop strategies for articulating your thoughts clearly and showcasing your coding process during whiteboard and live coding interviews. Key Features: In-Depth Coverage: Explore essential and advanced topics like asynchronous programming, database interactions, API development, unit testing, and system design. Step-by-Step Explanations: Each question and coding problem comes with clear, detailed solutions and best practices for confidently handling similar challenges. Proven Interview Strategies: Learn how to manage your time, approach problem-solving effectively, and handle high-pressure scenarios in technical interviews. Who This Book Is For: Junior Developers: Build a strong foundation by mastering the core Python concepts and questions interviewers expect. Mid-Level Programmers: Strengthen your problem-solving skills with complex topics like design patterns, testing frameworks, and code optimization. Senior Engineers: Prepare for technical leadership roles with challenging questions on architecture, scalability, and distributed systems. Boost Your Confidence and Land the Job: Employers look for candidates who can demonstrate a deep understanding of Python and communicate their problem-solving process clearly. This playbook empowers you to showcase not just your coding skills but also your readiness to tackle real-world scenarios. Gain the confidence to handle any question, from basic syntax to advanced system design. The Python Interview Playbook: Ace Every Question with Confidence is your roadmap to interview success. With practical coding exercises, comprehensive interview strategies, and expert insights, this guide will equip you to face any Python job interview with confidence. Get your copy today and start acing your Python interview to land your dream job!

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asynchronous programs. Asyncio is challenging to learn for beginners and challenging to use for experts and beginners alike. Asynchronous programming is an alternative paradigm that is quite different from the classical imperative and object-oriented programming paradigms that we are useful. * Do you know how to cancel an asynchronous task? * Do you know how to execute a list of coroutines concurrently? * Do you know how to execute blocking calls in an asyncio program? Discover 150+ interview questions and their answers on Python asyncio. * Study the questions and answers and improve your skill. * Test yourself to see what you really know, and what you don't. * Select questions to interview developers on a new role. Prepare for an interview or test your asyncio and coroutine skills in Python today.

python interview questions: The Big Book of Coding Interviews in Python, 2nd Edition

Interview Druid Publishing, 2017-06-03 This book contains answers to over 300 awesome coding interview questions. A preview of the contents of the book is available on the website www.interviewdruid.com It is ideally suited for preparing for programming interviews conducted by top technology companies such as Google, Facebook, Amazon, Microsoft, etc. The questions in the book have been carefully selected so that they represent the most frequently asked questions in interviews. The solutions are clearly explained with plenty of diagrams and comments in the code so that you can easily understand. So if you are looking for saving precious time and effort for preparing for an interview then this is the right book for you. Wishing you all the best for the interviews ahead!

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Powerhouse, 2018-09-11 Top 50 Pandas Interview Questions This book contains Pandas (python library) interview questions that an interviewer asks. It is a compilation of easy to advanced Pandas interview questions after attending dozens of technical interviews in top-notch companies like- Oracle, Google, Ebay, Amazon etc. Each question is accompanied with an answer so that you can prepare for job interview in short time. Often, these questions and concepts are used in our daily programming work. But these are most helpful when an Interviewer is trying to test your deep knowledge of Pandas concepts. How will this book help me? By reading this book, you do not have to spend time searching the Internet for Pandas interview questions. We have already compiled the list of the most popular and the latest Pandas Interview questions. Are there answers in this book? Yes, in this book each question is followed by an answer. So you can save time in interview preparation. What is the best way of reading this book? You have to first do a slow reading of all the questions in this book. Once you go through them in the first pass, mark the questions that you could not answer by yourself. Then, in second pass go through only the difficult questions. After going through this book 2-3 times, you will be well prepared to face a technical interview for Data Engineer position in Pandas. What is the level of questions in this book? This book contains questions that are good for a Associate Data engineer to a Principal Software engineer. The difficulty level of question varies in the book from a Fresher to an Experienced professional. What are the sample questions in this book? What is a Series in Pandas? How can we create copy of series in Pandas? How will you create a series from dict in Python? What are operations on Series in pandas? What is a DataFrame in pandas? What are the different ways in which a DataFrame can be created in Pandas? How will you create an empty DataFrame in pandas? How will you add a column to a pandas DataFrame? How will you add a scalar column with same value for all rows to a pandas DataFrame? How will you retrieve a single column from pandas DataFrame? How will you add the value of two columns in a pandas DataFrame to create another column? How will you delete a column in a pandas DataFrame? How can we select a column in pandas DataFrame? How can we retrieve a row in pandas DataFrame? How will you slice rows in a pandas DataFrame? How will you append new rows to a pandas DataFrame? How will you delete rows from a pandas DataFrame? How will you get the number of rows and columns of a DataFrame in pandas? How will you get the top 2 rows from a DataFrame in pandas? How will you get the last 2 rows from a DataFrame in pandas? How will you get the number of elements in a DataFrame in pandas? How will you get the names of columns of a DataFrame in pandas? How will you convert a DataFrame to an array in pandas? How can you check

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python interview questions: Data Science and Machine Learning Interview Questions Using Python Vishwanathan Narayanan, 2020-05-08
DESCRIPTION
Data science and Machine learning interview questions using Python, a book which is a true companion of people aspiring for data science and machine learning, and it provides answers to most asked questions in an easy to remember and presentable form. Book mainly intended to be used as last-minute revision, before the interview, as all the important concepts and various terminologies have been given in a very simple and understandable format. Many examples have been provided so that the same can be used while giving answers in an interview. The book is divided into six chapters, which starts with the Data Science Basic Questions and Terms then covers the questions related to Python Programming, Numpy, Pandas, Scipy, and its Applications, then at the last covers Matplotlib and Statistics with Excel Sheet.
KEY FEATURES - Questions related to core/basic Python, Excel, basic and advanced statistics are included - Book will prove to be a companion whenever you want to go for an interview - Simple to use words have been used in the answers for the questions to help ease of remembering
WHAT WILL YOU LEARN - You can learn the basic concept and terms related to Data Science, python programming - You will get to learn how to program in python, basics of Numpy - You will get familiarity with the questions asked in an interview related to Pandas and learn the concepts of Scipy, Matplotlib, and Statistics with Excel Sheet
WHO THIS BOOK IS FOR The book is mainly intended to help people represent their answer in a sensible way to the interviewer. The answers have been carefully rendered in a way to make things quite simple and yet represent the seriousness and complexity of the matter. Since data science is incomplete without mathematics, we have also included a part of the book dedicated to statistics.
Table of Contents 1. Data Science Basic Questions and Terms 2. Python Programming Questions 3. Numpy Interview Questions 4. Pandas Interview Questions 5. Scipy and its Applications 6. Matplotlib Samples to Remember 7. Statistics with Excel Sheet

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