

100 Python Interview Questions Answers Free

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[The Anarchist Cookbook](#) - William Powell
2018-03-11

The Anarchist Cookbook will shock, it will disturb, it will provoke. It places in historical perspective an era when "Turn on, Burn down, Blow up" are revolutionary slogans of the day. Says the author "This book... is not written for the members of fringe political groups, such as the Weatherman, or The Minutemen. Those

radical groups don't need this book. They already know everything that's in here. If the real people of America, the silent majority, are going to survive, they must educate themselves. That is the purpose of this book." In what the author considers a survival guide, there is explicit information on the uses and effects of drugs, ranging from pot to heroin to peanuts. There i detailed advice concerning electronics,

sabotage, and surveillance, with data on everything from bugs to scramblers. There is a comprehensive chapter on natural, non-lethal, and lethal weapons, running the gamut from cattle prods to sub-machine guns to bows and arrows.

Programming Interview Problems - Leonardo Rossi 2020-11-05

Are you preparing for a programming interview? Would you like to work at one of the Internet giants, such as Google, Facebook, Amazon, Apple, Microsoft or Netflix? Are you looking for a software engineer position? Are you studying computer science or programming? Would you like to improve your programming skills? If the answer to any of these questions is yes, this book is for you! The book contains very detailed answers and explanations for the most common dynamic programming problems asked in programming interviews. The solutions consist of cleanly written code, with plenty of comments, accompanied by verbal explanations,

hundreds of drawings, diagrams and detailed examples, to help you get a good understanding of even the toughest problems. The goal is for you to learn the patterns and principles needed to solve even dynamic programming problems that you have never seen before. Here is what you will get: A 180-page book presenting dynamic programming problems that are often asked in interviews. Multiple solutions for each problem, starting from simple but naive answers that are gradually improved until reaching the optimal solution. Plenty of detailed examples and walkthroughs, so that you can see right away how the solution works. 350+ drawings and diagrams which cater towards visual learners. Clear and detailed verbal explanations of how to approach the problems and how the code works. Analysis of time and space complexity. Discussion of other variants of the same problem, with solutions. Unit tests, including the reasoning behind choosing each one (edge case identification, performance evaluation etc.).

Suggestions regarding what clarification questions you should ask, for each problem. Multiple solutions to the problems, where appropriate. General Python implementation tips. Wishing you the best of luck with your interviews!

Top 200 Data Engineer Interview Questions and Answers - Knowledge Powerhouse
2017-03-19

Top 200 Data Engineer Interview Questions Big Data and Data Science are the most popular technology trends. There is a growing demand for Data Engineer job in technology companies. This book contains technical interview questions that an interviewer asks for Data Engineer position. Each question is accompanied with an answer so that you can prepare for job interview in short time. The book contains questions on Apache Hadoop, Hive, Spark, SQL and MySQL. It is a combination of our five other books. We have compiled this list after attending dozens of technical interviews in top-notch companies like-

Airbnb, Netflix, Amazon etc. Often, these questions and concepts are used in our daily work. But these are most helpful when an Interviewer is trying to test your deep knowledge of Big Data topics like- Hadoop, Hive, Spark, SQL, MySQL etc. What are the Big Data topics covered in this book? We cover a wide variety of Big Data and Data Science topics in this book. Some of the topics are Apache Hadoop, Hive, Spark, SQL, MySql etc. How will this book help me? By reading this book, you do not have to spend time searching the Internet for Data Engineer interview questions. We have already compiled the list of the most popular and the latest Data Engineer 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 a Data Engineer position. What is the level of questions in this book? This book contains questions that are good for a beginner Data engineer to a senior Data engineer. The difficulty level of question varies in the book from Fresher to a Seasoned professional. What are the sample questions in this book? What is the difference between ROLLBACK TO SAVEPOINT and RELEASE SAVEPOINT? How will you see the current user logged into MySQL connection? Can we create multiple tables in Hive for a data file? Can we use Hive for Online Transaction Processing (OLTP) systems? Can we use same name for a TABLE and VIEW in Hive? How can we get a random number between 1 and 100 in MySQL? How can you copy the structure of a table into another table without copying the data? How can you find 10 employees with Odd

number as Employee ID? How does CONCAT function work in Hive? How will you change the data type of a column in Hive? How will you check if a file exists in HDFS? How will you check if a table exists in MySQL? How will you run Unix commands from Hive? How will you search for a String in MySQL column? How will you see the structure of a table in MySQL? How will you select the storage level in Apache Spark? How will you synchronize the changes made to a file in Distributed Cache in Hadoop? If we set Replication factor 3 for a file, does it mean any computation will also take place 3 times? Is it safe to use ROWID to locate a record in Oracle SQL queries? What are different Persistence levels in Apache Spark? What are the common Transformations in Apache Spark? <http://www.knowledgepowerhouse.com>
Python Interview Questions - Meenu Kohi
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

Ace the Programming Interview - Edward Guinness 2013-05-31

Be prepared to answer the most relevant interview questions and land the job Programmers are in demand, but to land the job, you must demonstrate knowledge of those things

expected by today's employers. This guide sets you up for success. Not only does it provide 160 of the most commonly asked interview questions and model answers, but it also offers insight into the context and motivation of hiring managers in today's marketplace. Written by a veteran hiring manager, this book is a comprehensive guide for experienced and first-time programmers alike. Provides insight into what drives the recruitment process and how hiring managers think Covers both practical knowledge and recommendations for handling the interview process Features 160 actual interview questions, including some related to code samples that are available for download on a companion website Includes information on landing an interview, preparing a cheat-sheet for a phone interview, how to demonstrate your programming wisdom, and more Ace the Programming Interview, like the earlier Wiley bestseller Programming Interviews Exposed, helps you approach the job interview with the confidence that comes from being

prepared.

Elements of Programming Interviews -

Adnan Aziz 2012-10-11

The core of EPI is a collection of over 300 problems with detailed solutions, including 100 figures, 250 tested programs, and 150 variants. The problems are representative of questions asked at the leading software companies. The book begins with a summary of the nontechnical aspects of interviewing, such as common mistakes, strategies for a great interview, perspectives from the other side of the table, tips on negotiating the best offer, and a guide to the best ways to use EPI. The technical core of EPI is a sequence of chapters on basic and advanced data structures, searching, sorting, broad algorithmic principles, concurrency, and system design. Each chapter consists of a brief review, followed by a broad and thought-provoking series of problems. We include a summary of data structure, algorithm, and problem solving patterns.

Python for Everybody - Charles R. Severance
2016-04-09

Python for Everybody is designed to introduce students to programming and software development through the lens of exploring data. You can think of the Python programming language as your tool to solve data problems that are beyond the capability of a spreadsheet. Python is an easy to use and easy to learn programming language that is freely available on Macintosh, Windows, or Linux computers. So once you learn Python you can use it for the rest of your career without needing to purchase any software. This book uses the Python 3 language. The earlier Python 2 version of this book is titled "Python for Informatics: Exploring Information". There are free downloadable electronic copies of this book in various formats and supporting materials for the book at www.pythonlearn.com. The course materials are available to you under a Creative Commons License so you can adapt them to

teach your own Python course.

C & C++ Interview Questions You'll Most Likely Be Asked - Vibrant Publishers 2011-03-04

C & C++ Interview Questions You'll Most Likely Be Asked is a perfect companion to stand a head 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.

The Google Resume - Gayle Laakmann McDowell
2011-01-25

The Google Resume is the only book available on how to win a coveted spot at Google, Microsoft, Apple, or other top tech firms. Gayle Laakmann McDowell worked in Google Engineering for three years, where she served on the hiring committee and interviewed over 120 candidates. She interned for Microsoft and Apple, and interviewed with and received offers from ten tech firms. If you're a student, you'll learn what to study and how to prepare while in school, as

well as what career paths to consider. If you're a job seeker, you'll get an edge on your competition by learning about hiring procedures and making yourself stand out from other candidates. Covers key concerns like what to major in, which extra-curriculars and other experiences look good, how to apply, how to design and tailor your resume, how to prepare for and excel in the interview, and much more. Author was on Google's hiring committee; interned at Microsoft and Apple; has received job offers from more than 10 tech firms; and runs CareerCup.com, a site devoted to tech jobs. Get the only comprehensive guide to working at some of America's most dynamic, innovative, and well-paying tech companies with The Google Resume.

Top 50 SQL Tricky Interview Questions - Knowledge Powerhouse 2016-12-11

This book contains tricky and nasty SQL interview questions that an interviewer asks. It is a compilation of advanced SQL 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 because you want to save your time while preparing for an interview. The difficulty rating on these Questions varies from a Junior level programmer to Architect level. Sample Questions are: How can we retrieve alternate records from a table in Oracle? Given a list of student names and grade. Write a query to print a comma separated list of student names in a grade. Write SQL Query to get Student Name and number of Students in same grade. Write SQL query to delete duplicate rows in a table? Write SQL query to get the second highest salary among all Employees? Write SQL Query to get Employee Name, Manager ID and number of employees in the department? Write SQL query to get the nth highest salary among all Employees. Given an Employee table with Manager_ID as column, print First name, Manager ID and Level of

employees in Organization Structure? Why is the difference between NVL and NVL2 functions in SQL? What is the difference between UNION and UNION ALL? What are the reasons for de-normalizing the data? What is a Pseudocolumn? How can you find 10 employees with Odd number as Employee ID? What is the difference between DELETE and TRUNCATE in SQL? Which SQL feature can be used to view data in a table sequentially? What are the differences between CASE and DECODE in SQL? Write a SQL Query to get the Quarter from date. <http://www.knowledgepowerhouse.com>

Deep Learning Interviews - Shlomo Kashani
2020-12-09

The book's contents is a large inventory of numerous topics relevant to DL job interviews and graduate level exams. That places this work at the forefront of the growing trend in science to teach a core set of practical mathematical and computational skills. It is widely accepted that the training of every computer scientist must

include the fundamental theorems of ML, and AI appears in the curriculum of nearly every university. This volume is designed as an excellent reference for graduates of such programs.

[Interview Questions & Answers in JavaScript](#) -
Bandana Ojha 2018-11-08

Surviving the Whiteboard Interview - William Gant 2019-08-02

The industry standard whiteboard interview can be daunting for developers. Let's face it: it combines the worst aspects of a typical interview, on-the-spot public speaking, a quiz show, and a dinner party full of strangers judging you—all at once. Brilliant developers can let their nerves get the best of them and completely bomb a whiteboard interview, while inexperienced developers who excel in soft skills can breeze through them. In *Surviving the Whiteboard Interview*, author William Gant uses his real-world knowledge and expertise to guide

you through the psychological roadblocks of a coding test while also providing you with a sample coding challenge. With enough preparation, information, and assured confidence, you can survive a whiteboard interview at any organization. In addition to the benefits listed above, Gant helps you explore how you can create a good soft skills impression that will last beyond the whiteboard test by showing your work ethic, positive attitude, and ability to take and implement criticism effectively. These assets will unequivocally serve other parts of your life outside of an interview context, as well. While Gant does not promise that you will ever truly enjoy interviewing, he does promise to arm you with the proper preparation techniques and knowledge needed to tame the common fears and dread that come along with it. Maximize your career potential and get inspired with *Surviving the Whiteboard Interview*. The steps to your dream role just might be closer than you think. *What You Will*

Learn Practice both hard and soft skills required to succeed at a whiteboard interview, covering coding tests as well as psychological preparation. Learn how to make other aspects of your interview stronger, so you can create a great impression. Master solving common whiteboard problems in different programming languages. Who This Book is For This book is primarily for aspiring software developers who are looking for a job in the field. However, it will also be helpful for more seasoned developers who find interviewing painful and want to improve their skills.

Effective Python - Brett Slatkin 2020

A Guide to the Project Management Body of Knowledge (PMBOK® Guide) - Seventh Edition and The Standard for Project Management (BRAZILIAN PORTUGUESE) - Project Management Institute Project Management Institute 2021-08-01
PMBOK® Guide is the go-to resource for

project management practitioners. The project management profession has significantly evolved due to emerging technology, new approaches and rapid market changes. Reflecting this evolution, The Standard for Project Management enumerates 12 principles of project management and the PMBOK® Guide &– Seventh Edition is structured around eight project performance domains. This edition is designed to address practitioners' current and future needs and to help them be more proactive, innovative and nimble in enabling desired project outcomes. This edition of the PMBOK® Guide:

- Reflects the full range of development approaches (predictive, adaptive, hybrid, etc.);
- Provides an entire section devoted to tailoring the development approach and processes;
- Includes an expanded list of models, methods, and artifacts;
- Focuses on not just delivering project outputs but also enabling outcomes; and
- Integrates with PMI standards+™ for information and standards

application content based on project type, development approach, and industry sector.

Artificial Intelligence with Python - Prateek Joshi 2017-01-27

Build real-world Artificial Intelligence applications with Python to intelligently interact with the world around you About This Book Step into the amazing world of intelligent apps using this comprehensive guide Enter the world of Artificial Intelligence, explore it, and create your own applications Work through simple yet insightful examples that will get you up and running with Artificial Intelligence in no time Who This Book Is For This book is for Python developers who want to build real-world Artificial Intelligence applications. This book is friendly to Python beginners, but being familiar with Python would be useful to play around with the code. It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks. What You Will Learn Realize

different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an intelligent recommender system Understand logic programming and how to use it Build automatic speech recognition systems Understand the basics of heuristic search and genetic programming Develop games using Artificial Intelligence Learn how reinforcement learning works Discover how to build intelligent applications centered on images, text, and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is driven by technology and data. It is used extensively across many fields such as search engines, image recognition, robotics, finance, and so on. We will explore various real-world scenarios in this book and you'll learn about various algorithms that can be used to build Artificial

Intelligence applications. During the course of this book, you will find out how to make informed decisions about what algorithms to use in a given context. Starting from the basics of Artificial Intelligence, you will learn how to develop various building blocks using different data mining techniques. You will see how to implement different algorithms to get the best possible results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer to any application that's based on images, text, stock market, or some other form of data, this exciting book on Artificial Intelligence will definitely be your guide! Style and approach This highly practical book will show you how to implement Artificial Intelligence. The book provides multiple examples enabling you to create smart applications to meet the needs of your organization. In every chapter, we explain an algorithm, implement it, and then build a smart application.

Beginning React with Hooks - Greg Lim

2020-09

Developed by Facebook, React is one of the leading frameworks to build efficient web user interfaces. You use small manageable components to build large-scale, data-driven websites without page reloads. In this book, we take you on a fun, hands-on and pragmatic journey to master React Hooks from a web development point of view. You'll start building React apps using functional components within minutes. Every section is written in a bite-sized manner and straight to the point as I don't want to waste your time (and most certainly mine) on the content you don't need. In the end, you will have what it takes to develop a real-life app. This book will give you everything you need to learn and be effective with the latest features of React Hooks. About the Reader Basic familiarity with HTML, CSS, Javascript and object-oriented programming. No prior knowledge of React is required as we start from React basics. But if

you have previous experience with React class-based components, you will progress through the material faster. About the Author Greg Lim is a technologist and author of several programming books. Greg has many years in teaching programming in tertiary institutions and he places special emphasis on learning by doing. Table of Contents Introduction Creating and Using Components Bindings, Props, State and Events Working with Components Conditional Rendering Building Forms with Hooks Getting Data From RESTful APIs with Hooks C.R.U.D. with Hooks Connecting to an API to Persist Data

Data Science Jobs - Ann Rajaram

Want a high-paying \$\$\$ career in the exciting field of DataScience? This is the ONLY book that will help you land a lucrative Analytics job in 90 days or less! This book is the perfect guide for you, if you fall into any of these categories: * You recently completed a masters degree (or online course or bootcamp) and want to get hired

quickly as a Data Scientist, Data Analyst, Data Engineer, Machine learning engineer or BI developer. * Looking to start a career in data science, but unsure where to start. * You are an experienced tech professional, but looking to pivot into analytics to boost your salary potential. * Tired of applying to dozens of jobs without getting a positive response and/or final job offer . * F1 visa, STEM OPT/ CPT students will also find this book helpful to land a job in this lucrative field. The book will teach you proven successful strategies on: * Winning Profiles Turbocharge your resume and LinkedIn profile and start receiving interview calls from hiring managers. Let JOBS CHASE YOU, instead of the other way around! * LinkedIn - A dedicated chapter on LinkedIn that teaches you some creative (and SECRET) ways to leverage the site and identify high-paying jobs with low competition. * Niche sites - A full list of niche job boards that other candidates have overlooked. These sites have high-\$ jobs but lesser

competition than the popular job search sites. Upwork - Contrary to popular opinion, Upwork can help you make \$\$\$ in data science jobs. Learn proven techniques to help you bag contracts and start earning, as quickly as next week. * 100+ interview questions asked in real-life data scientist interviews. * Other learner resources and much more... Author is a practicing analytics professional who has worked in Fortune500 Firms like NASDAQ , BlackRock, etc. Unlike most job search books that are written by recruiters or professors, this book is written by a senior professional, who rose quickly from analyst to managerial roles. She has attended interviews of her own, and knows clearly the frustrations (and at times, hopelessness) of the job search process. The systems in this book have successfully helped dozens of job seekers and will work effectively for you too! Read on to launch your dream career! Note, this book is deliberately kept short and precise, so you can quickly read through and

start applying these principles, instead of sifting through 500 pages of fluff. This book includes: Data Science interview questions and answers; Help preparing for Machine Learning Interviews; Top 25 Interview Questions for Data Analyst/Scientist roles; An in-depth overview of Data Science Interview Process; How to ace your interview even if you are an Entry level Data Analyst / Data Scientist; Data Science Interview questions for freshers; How and Where to look for jobs; and much more!

Cracking the Coding Interview - Gayle

Laakmann McDowell 2011

Now in the 5th edition, Cracking the Coding Interview gives you the interview preparation you need to get the top software developer jobs. This book provides: 150 Programming Interview Questions and Solutions: From binary trees to binary search, this list of 150 questions includes the most common and most useful questions in data structures, algorithms, and knowledge based questions. 5 Algorithm Approaches: Stop

being blind-sided by tough algorithm questions, and learn these five approaches to tackle the trickiest problems. Behind the Scenes of the interview processes at Google, Amazon, Microsoft, Facebook, Yahoo, and Apple: Learn what really goes on during your interview day and how decisions get made. Ten Mistakes Candidates Make -- And How to Avoid Them: Don't lose your dream job by making these common mistakes. Learn what many candidates do wrong, and how to avoid these issues. Steps to Prepare for Behavioral and Technical Questions: Stop meandering through an endless set of questions, while missing some of the most important preparation techniques. Follow these steps to more thoroughly prepare in less time.

Python Machine Learning - Sebastian Raschka 2015-09-23

Unlock deeper insights into Machine Learning with this vital guide to cutting-edge predictive analytics About This Book Leverage Python's most powerful open-source libraries for deep

learning, data wrangling, and data visualization
Learn effective strategies and best practices to improve and optimize machine learning systems and algorithms
Ask - and answer - tough questions of your data with robust statistical models, built for a range of datasets
Who This Book Is For
If you want to find out how to use Python to start answering critical questions of your data, pick up Python Machine Learning - whether you want to get started from scratch or want to extend your data science knowledge, this is an essential and unmissable resource.
What You Will Learn
Explore how to use different machine learning models to ask different questions of your data
Learn how to build neural networks using Keras and Theano
Find out how to write clean and elegant Python code that will optimize the strength of your algorithms
Discover how to embed your machine learning model in a web application for increased accessibility
Predict continuous target outcomes using regression analysis
Uncover

hidden patterns and structures in data with clustering
Organize data using effective pre-processing techniques
Get to grips with sentiment analysis to delve deeper into textual and social media data
In Detail
Machine learning and predictive analytics are transforming the way businesses and other organizations operate. Being able to understand trends and patterns in complex data is critical to success, becoming one of the key strategies for unlocking growth in a challenging contemporary marketplace. Python can help you deliver key insights into your data - its unique capabilities as a language let you build sophisticated algorithms and statistical models that can reveal new perspectives and answer key questions that are vital for success. Python Machine Learning gives you access to the world of predictive analytics and demonstrates why Python is one of the world's leading data science languages. If you want to ask better questions of data, or need to improve and extend the capabilities of your

machine learning systems, this practical data science book is invaluable. Covering a wide range of powerful Python libraries, including scikit-learn, Theano, and Keras, and featuring guidance and tips on everything from sentiment analysis to neural networks, you'll soon be able to answer some of the most important questions facing you and your organization. Style and approach Python Machine Learning connects the fundamental theoretical principles behind machine learning to their practical application in a way that focuses you on asking and answering the right questions. It walks you through the key elements of Python and its powerful machine learning libraries, while demonstrating how to get to grips with a range of statistical models.

Heard in Data Science Interviews - Kal Mishra 2018-10-03

A collection of over 650 actual Data Scientist/Machine Learning Engineer job interview questions along with their full answers, references, and useful tips

Coding Interview Questions - Narasimha Karumanchi 2016-08-24

"Coding Interview Questions" is a book that presents interview questions in simple and straightforward manner with a clear-cut explanation. This book will provide an introduction to the basics. It comes handy as an interview and exam guide for computer scientists.

Cracking the Code to a Successful Interview - Evan Pellett 2016-12-13

Featured on CBS and WBZ Radio, Evan Pellett is the keynote guest speaker on Nightside with Dan Rea. You may have heard Evan as the radio expert on interviewing across the United States. *Cracking the Code to a Successful Interview* is a groundbreaking new scientific, proactive, cutting-edge, hands-on, proven approach to job interviews by an award-winning, highly decorated recruiter. This REAPRICH eight-step interview method will give you a proactive way to take control of your interview. You will learn

the secret, never-before-published “questions behind the questions.” These are the questions that every manager unconsciously needs answered in order to hire you.

Flutter Complete Reference - Alberto Miola
2020-09-30

Flutter is Google's UI toolkit for creating beautiful and native applications for mobile, desktop and web from a single Dart codebase. In this book we cover in detail the Dart programming language (version 2.10, with null safety support) and the Flutter framework (version 1.20). While reading the chapters, you'll find a lot of good practices, tips and performance advices to build high quality products. The book is divided in 3 parts. PART 1: It's about the Dart programming language (classes, exceptions, inheritance, null safety, streams, SOLID principles...). PART 2. It's about the Flutter framework (localization, routing, state management with Bloc and Provider, testing, performances with DevTools,

animations...). PART 3. It's a long collection of examples (using Firestore, monetizing apps, using gestures, networking, publishing packages at pub.dev, race recognition with ML kits, playing audio and video...). The official website of the book contains the complete source code of the examples and a "Quiz Game" to test your Dart and Flutter skills!

Cracking the Data Science Interview -
Maverick Lin 2019-12-17

Cracking the Data Science Interview is the first book that attempts to capture the essence of data science in a concise, compact, and clean manner. In a Cracking the Coding Interview style, Cracking the Data Science Interview first introduces the relevant concepts, then presents a series of interview questions to help you solidify your understanding and prepare you for your next interview. Topics include: - Necessary Prerequisites (statistics, probability, linear algebra, and computer science) - 18 Big Ideas in Data Science (such as Occam's Razor,

Overfitting, Bias/Variance Tradeoff, Cloud Computing, and Curse of Dimensionality) - Data Wrangling (exploratory data analysis, feature engineering, data cleaning and visualization) - Machine Learning Models (such as k-NN, random forests, boosting, neural networks, k-means clustering, PCA, and more) - Reinforcement Learning (Q-Learning and Deep Q-Learning) - Non-Machine Learning Tools (graph theory, ARIMA, linear programming) - Case Studies (a look at what data science means at companies like Amazon and Uber) Maverick holds a bachelor's degree from the College of Engineering at Cornell University in operations research and information engineering (ORIE) and a minor in computer science. He is the author of the popular Data Science Cheatsheet and Data Engineering Cheatsheet on GCP and has previous experience in data science consulting for a Fortune 500 company focusing on fraud analytics.

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 efficient algorithm to solve the problem. ● Learn to use python tricks to make your program competitive. ● Learn to understand and measure time and space complexity. ● Get solutions to questions based on Searching, Sorting, Graphs, DFS, BFS, Backtracking, Dynamic programming. WHO THIS BOOK IS FOR This book will help professionals and beginners clear the Data

structures and Algorithms coding test. Basic knowledge of Python and Data Structures is a must. TABLE OF CONTENTS 1. Lists, binary search and strings 2. Linked lists and stacks 3. Hash table and maths 4. Trees and graphs 5. Depth first search 6. Breadth first search 7. Backtracking 8. Greedy and divide and conquer algorithms 9. Dynamic programming Algorithms - Robert Sedgewick 2014-02-01 This book is Part I of the fourth edition of Robert Sedgewick and Kevin Wayne's Algorithms , the leading textbook on algorithms today, widely used in colleges and universities worldwide. Part I contains Chapters 1 through 3 of the book. The fourth edition of Algorithms surveys the most important computer algorithms currently in use and provides a full treatment of data structures and algorithms for sorting, searching, graph processing, and string processing -- including fifty algorithms every programmer should know. In this edition, new Java implementations are written in an accessible modular programming

style, where all of the code is exposed to the reader and ready to use. The algorithms in this book represent a body of knowledge developed over the last 50 years that has become indispensable, not just for professional programmers and computer science students but for any student with interests in science, mathematics, and engineering, not to mention students who use computation in the liberal arts. The companion web site, algs4.cs.princeton.edu contains An online synopsis Full Java implementations Test data Exercises and answers Dynamic visualizations Lecture slides Programming assignments with checklists Links to related material The MOOC related to this book is accessible via the "Online Course" link at algs4.cs.princeton.edu. The course offers more than 100 video lecture segments that are integrated with the text, extensive online assessments, and the large-scale discussion forums that have proven so valuable. Offered each fall and spring, this course regularly

attracts tens of thousands of registrants. Robert Sedgewick and Kevin Wayne are developing a modern approach to disseminating knowledge that fully embraces technology, enabling people all around the world to discover new ways of learning and teaching. By integrating their textbook, online content, and MOOC, all at the state of the art, they have built a unique resource that greatly expands the breadth and depth of the educational experience.

A Collection of Advanced Data Science and Machine Learning Interview Questions Solved in Python and Spark (Ii) - Antonio Gulli 2015-11-18

A collection of Machine Learning interview questions in Python and Spark

Programming Interviews Exposed - John Mongan 2011-08-10

The pressure is on during the interview process but with the right preparation, you can walk away with your dream job. This classic book uncovers what interviews are really like at America's top software and computer companies

and provides you with the tools to succeed in any situation. The authors take you step-by-step through new problems and complex brainteasers they were asked during recent technical interviews. 50 interview scenarios are presented along with in-depth analysis of the possible solutions. The problem-solving process is clearly illustrated so you'll be able to easily apply what you've learned during crunch time. You'll also find expert tips on what questions to ask, how to approach a problem, and how to recover if you become stuck. All of this will help you ace the interview and get the job you want. What you will learn from this book

Tips for effectively completing the job application
Ways to prepare for the entire programming interview process
How to find the kind of programming job that fits you best
Strategies for choosing a solution and what your approach says about you
How to improve your interviewing skills so that you can respond to any question or situation
Techniques for solving knowledge-based problems, logic

puzzles, and programming problems Who this book is for This book is for programmers and developers applying for jobs in the software industry or in IT departments of major corporations. Wrox Beginning guides are crafted to make learning programming languages and technologies easier than you think, providing a structured, tutorial format that will guide you through all the techniques involved.

TOP 30 Java Interview Coding Tasks - Matthew Urban 2018-07-04

Coding Interviews - Harry He 2013-01-31
This book is about coding interview questions from software and Internet companies. It covers five key factors which determine performance of candidates: (1) the basics of programming languages, data structures and algorithms, (2) approaches to writing code with high quality, (3) tips to solve difficult problems, (4) methods to optimize code, (5) soft skills required in interviews. The basics of languages, algorithms

and data structures are discussed as well as questions that explore how to write robust solutions after breaking down problems into manageable pieces. It also includes examples to focus on modeling and creative problem solving. Interview questions from the most popular companies in the IT industry are taken as examples to illustrate the five factors above. Besides solutions, it contains detailed analysis, how interviewers evaluate solutions, as well as why they like or dislike them. The author makes clever use of the fact that interviewees will have limited time to program meaningful solutions which in turn, limits the options an interviewer has. So the author covers those bases. Readers will improve their interview performance after reading this book. It will be beneficial for them even after they get offers, because its topics, such as approaches to analyzing difficult problems, writing robust code and optimizing, are all essential for high-performing coders. *Build a Career in Data Science* - Emily Robinson

2020-03-06

Summary You are going to need more than technical knowledge to succeed as a data scientist. *Build a Career in Data Science* teaches you what school leaves out, from how to land your first job to the lifecycle of a data science project, and even how to become a manager. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology What are the keys to a data scientist's long-term success? Blending your technical know-how with the right "soft skills" turns out to be a central ingredient of a rewarding career. About the book *Build a Career in Data Science* is your guide to landing your first data science job and developing into a valued senior employee. By following clear and simple instructions, you'll learn to craft an amazing resume and ace your interviews. In this demanding, rapidly changing field, it can be challenging to keep projects on track, adapt to company needs, and manage tricky

stakeholders. You'll love the insights on how to handle expectations, deal with failures, and plan your career path in the stories from seasoned data scientists included in the book. What's inside Creating a portfolio of data science projects Assessing and negotiating an offer Leaving gracefully and moving up the ladder Interviews with professional data scientists About the reader For readers who want to begin or advance a data science career. About the author Emily Robinson is a data scientist at Warby Parker. Jacqueline Nolis is a data science consultant and mentor. Table of Contents: PART 1 - GETTING STARTED WITH DATA SCIENCE 1. What is data science? 2. Data science companies 3. Getting the skills 4. Building a portfolio PART 2 - FINDING YOUR DATA SCIENCE JOB 5. The search: Identifying the right job for you 6. The application: Résumés and cover letters 7. The interview: What to expect and how to handle it 8. The offer: Knowing what to accept PART 3 - SETTLING INTO DATA SCIENCE 9. The first

months on the job 10. Making an effective analysis 11. Deploying a model into production 12. Working with stakeholders PART 4 - GROWING IN YOUR DATA SCIENCE ROLE 13. When your data science project fails 14. Joining the data science community 15. Leaving your job gracefully 16. Moving up the ladder

Coding Interview Questions - Narasimha Karumanchi 2012

Peeling Data Structures and Algorithms: * Programming puzzles for interviews * Campus Preparation * Degree/Masters Course Preparation * Instructor's * GATE Preparation * Big job hunters: Microsoft, Google, Amazon, Yahoo, Flip Kart, Adobe, IBM Labs, Citrix, Mentor Graphics, NetApp, Oracle, Webaroo, De-Shaw, Success Factors, Face book, McAfee and many more * Reference Manual for working people

Grokking the System Design Interview - Design Gurus 2021-12-18

This book (also available online at

www.designgurus.org) by Design Gurus has helped 60k+ readers to crack their system design interview (SDI). System design questions have become a standard part of the software engineering interview process. These interviews determine your ability to work with complex systems and the position and salary you will be offered by the interviewing company. Unfortunately, SDI is difficult for most engineers, partly because they lack experience developing large-scale systems and partly because SDIs are unstructured in nature. Even engineers who've some experience building such systems aren't comfortable with these interviews, mainly due to the open-ended nature of design problems that don't have a standard answer. This book is a comprehensive guide to master SDIs. It was created by hiring managers who have worked for Google, Facebook, Microsoft, and Amazon. The book contains a carefully chosen set of questions that have been repeatedly asked at top companies. What's

inside? This book is divided into two parts. The first part includes a step-by-step guide on how to answer a system design question in an interview, followed by famous system design case studies. The second part of the book includes a glossary of system design concepts. Table of Contents
First Part: System Design Interviews: A step-by-step guide. Designing a URL Shortening service like TinyURL. Designing Pastebin. Designing Instagram. Designing Dropbox. Designing Facebook Messenger. Designing Twitter. Designing YouTube or Netflix. Designing Typeahead Suggestion. Designing an API Rate Limiter. Designing Twitter Search. Designing a Web Crawler. Designing Facebook's Newsfeed. Designing Yelp or Nearby Friends. Designing Uber backend. Designing Ticketmaster. Second Part: Key Characteristics of Distributed Systems. Load Balancing. Caching. Data Partitioning. Indexes. Proxies. Redundancy and Replication. SQL vs. NoSQL. CAP Theorem. PACELC Theorem. Consistent Hashing. Long-Polling vs.

WebSockets vs. Server-Sent Events. Bloom Filters. Quorum. Leader and Follower. Heartbeat. Checksum. About the Authors
Designed Gurus is a platform that offers online courses to help software engineers prepare for coding and system design interviews. Learn more about our courses at www.designgurus.org.

Python Tricks - Dan Bader 2017

"I don't even feel like I've scratched the surface of what I can do with Python" With Python Tricks: The Book you'll discover Python's best practices and the power of beautiful & Pythonic code with simple examples and a step-by-step narrative. You'll get one step closer to mastering Python, so you can write beautiful and idiomatic code that comes to you naturally. Learning the ins and outs of Python is difficult-and with this book you'll be able to focus on the practical skills that really matter. Discover the "hidden gold" in Python's standard library and start writing clean and Pythonic code today. Who Should Read This

Book: If you're wondering which lesser known parts in Python you should know about, you'll get a roadmap with this book. Discover cool (yet practical!) Python tricks and blow your coworkers' minds in your next code review. If you've got experience with legacy versions of Python, the book will get you up to speed with modern patterns and features introduced in Python 3 and backported to Python 2. If you've worked with other programming languages and you want to get up to speed with Python, you'll pick up the idioms and practical tips you need to become a confident and effective Pythonista. If you want to make Python your own and learn how to write clean and Pythonic code, you'll discover best practices and little-known tricks to round out your knowledge. What Python Developers Say About The Book: "I kept thinking that I wished I had access to a book like this when I started learning Python many years ago." - Mariatta Wijaya, Python Core Developer "This book makes you write better Python code!" - Bob

Belderbos, Software Developer at Oracle "Far from being just a shallow collection of snippets, this book will leave the attentive reader with a deeper understanding of the inner workings of Python as well as an appreciation for its beauty."

- Ben Felder, Pythonista "It's like having a seasoned tutor explaining, well, tricks!" - Daniel Meyer, Sr. Desktop Administrator at Tesla Inc.

Python Tutorial - Guido Rossum 2018-06-19

Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms. The Python interpreter and the extensive standard library are freely available in source or binary form for all major platforms from the Python Web site, <https://www.python.org/>, and may be freely

distributed. The same site also contains distributions of and pointers to many free third party Python modules, programs and tools, and additional documentation. The Python interpreter is easily extended with new functions and data types implemented in C or C++ (or other languages callable from C). Python is also suitable as an extension language for customizable applications. This tutorial introduces the reader informally to the basic concepts and features of the python language and system. It helps to have a Python interpreter handy for hands-on experience, but all examples are self contained, so the tutorial can be read off-line as well. For a description of standard objects and modules, see [library-index](#). [reference-index](#) gives a more formal definition of the language. To write extensions in C or C++, read [extending-index](#) and [c-api-index](#). There are also several books covering Python in depth. This tutorial does not attempt to be comprehensive and cover every single feature,

or even every commonly used feature. Instead, it introduces many of Python's most noteworthy features, and will give you a good idea of the language's flavor and style. After reading it, you will be able to read and write Python modules and programs, and you will be ready to learn more about the various Python library modules described in library-index. The Glossary is also worth going through.

Data Structures and Algorithms in Python - Michael T. Goodrich 2013-03-08

Based on the authors' market leading data structures books in Java and C++, this textbook offers a comprehensive, definitive introduction to data structures in Python by authoritative authors. Data Structures and Algorithms in Python is the first authoritative object-oriented book available for the Python data structures course. Designed to provide a comprehensive introduction to data structures and algorithms, including their design, analysis, and implementation, the text will maintain the same

general structure as Data Structures and Algorithms in Java and Data Structures and Algorithms in C++.

Learning How to Learn - Barbara Oakley, PhD 2018-08-07

A surprisingly simple way for students to master any subject--based on one of the world's most popular online courses and the bestselling book A Mind for Numbers A Mind for Numbers and its wildly popular online companion course "Learning How to Learn" have empowered more than two million learners of all ages from around the world to master subjects that they once struggled with. Fans often wish they'd discovered these learning strategies earlier and ask how they can help their kids master these skills as well. Now in this new book for kids and teens, the authors reveal how to make the most of time spent studying. We all have the tools to learn what might not seem to come naturally to us at first--the secret is to understand how the brain works so we can unlock its power. This

book explains: Why sometimes letting your mind wander is an important part of the learning process How to avoid "rut think" in order to think outside the box Why having a poor memory can be a good thing The value of metaphors in developing understanding A simple, yet powerful, way to stop procrastinating Filled with illustrations, application questions, and exercises, this book makes learning easy and fun.

Python Interviews - Michael Driscoll

2018-02-28

Mike Driscoll takes you on a journey talking to a hall-of-fame list of truly remarkable Python experts. You'll be inspired every time by their passion for the Python language, as they share with you their experiences, contributions, and careers in Python. Key Features Hear from these key Python thinkers about the current status of Python, and where it's heading in the future Listen to their close thoughts on significant Python topics, such as Python's role in scientific

computing, and machine learning Understand the direction of Python, and what needs to change for Python 4 Book Description Each of these twenty Python Interviews can inspire and refresh your relationship with Python and the people who make Python what it is today. Let these interviews spark your own creativity, and discover how you also have the ability to make your mark on a thriving tech community. This book invites you to immerse in the Python landscape, and let these remarkable programmers show you how you too can connect and share with Python programmers around the world. Learn from their opinions, enjoy their stories, and use their tech tips. • Brett Cannon - former director of the PSF, Python core developer, led the migration to Python 3. • Steve Holden - tireless Python promoter and former chairman and director of the PSF. • Carol Willing - former director of the PSF and Python core developer, Project Jupyter Steering Council member. • Nick Coghlan - founding member of

the PSF's Packaging Working Group and Python core developer. • Jessica McKellar - former director of the PSF and Python activist. • Marc-André Lemburg - Python core developer and founding member of the PSF. • Glyph Lefkowitz - founder of Twisted and fellow of the PSF • Doug Hellmann - fellow of the PSF, creator of the Python Module of the Week blog, Python community member since 1998. • Massimo Di Pierro - fellow of the PSF, data scientist and the inventor of web2py. • Alex Martelli - fellow of the PSF and co-author of Python in a Nutshell. • Barry Warsaw - fellow of the PSF, Python core developer since 1995, and original member of PythonLabs. • Tarek Ziadé - founder of Afpv and author of Expert Python Programming. • Sebastian Raschka - data scientist and author of Python Machine Learning. • Wesley Chun - fellow of the PSF and author of the Core Python Programming books. • Steven Lott - Python blogger and author of Python for Secret Agents. • Oliver Schoenborn - author of Pypubsub and

wxPython mailing list contributor. • Al Sweigart - bestselling author of Automate the Boring Stuff with Python and creator of the Python modules Pyperclip and PyAutoGUI. • Luciano Ramalho - fellow of the PSF and the author of Fluent Python. • Mike Bayer - fellow of the PSF, creator of open source libraries including SQLAlchemy. • Jake Vanderplas - data scientist and author of Python Data Science Handbook. What you will learn How successful programmers think The history of Python Insights into the minds of the Python core team Trends in Python programming Who this book is for Python programmers and students interested in the way that Python is used - past and present - with useful anecdotes. It will also be of interest to those looking to gain insights from top programmers.

Data Science and Machine Learning - Dirk P. Kroese 2019-11-20

"This textbook is a well-rounded, rigorous, and informative work presenting the mathematics

behind modern machine learning techniques. It hits all the right notes: the choice of topics is up-to-date and perfect for a course on data science for mathematics students at the advanced undergraduate or early graduate level. This book fills a sorely-needed gap in the existing literature by not sacrificing depth for breadth, presenting proofs of major theorems and subsequent derivations, as well as providing a copious amount of Python code. I only wish a book like this had been around when I first began my journey!" -Nicholas Hoell, University of Toronto "This is a well-written book that provides a deeper dive into data-scientific methods than many introductory texts. The writing is clear, and the text logically builds up regularization, classification, and decision trees.

Compared to its probable competitors, it carves out a unique niche. -Adam Loy, Carleton College
The purpose of Data Science and Machine Learning: Mathematical and Statistical Methods is to provide an accessible, yet comprehensive textbook intended for students interested in gaining a better understanding of the mathematics and statistics that underpin the rich variety of ideas and machine learning algorithms in data science. Key Features:
Focuses on mathematical understanding.
Presentation is self-contained, accessible, and comprehensive. Extensive list of exercises and worked-out examples. Many concrete algorithms with Python code. Full color throughout. Further Resources can be found on the authors website: <https://github.com/DSML-book/Lectures>