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Software Engineering and Knowledge Engineering CRC Press

Answers the question, "What can I do with an engineering degree?" Great Jobs for Engineering Majors helps you explore your career options within your field of study. From assessing your talents and skills to taking the necessary steps to land a job, every aspect of identifying and getting started in engineering is covered. You learn to explore your options, target an ideal career, present a major as an asset to a job, perfect a job search, and follow through and get results.

Knowledge Engineering CRC Press

Introduction: Top 50 Apache Spark Interview Questions & Answers Apache Spark is a highly popular trend in technology world. There is a growing demand for Data Engineer jobs with Apache Spark knowledge in IT Industry. This book contains technical interview questions that an interviewer asks for Apache Spark. 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- Amazon, Netflix, Uber etc. Often, these questions and concepts are used in our daily work. There is a sample answer with each question. But try to answer these questions in your own words. After going through this book 2-3 times, you will be well prepared to face interview of Apache Spark topic for Data Engineer position. How will this book help me? By reading this book, you do not have to spend time searching the Internet for Apache Spark Data Engineer interview questions. We have already compiled the list of most popular and

latest Apache Spark 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 try to go through the difficult questions. After going through this book 2-3 times, you will be well prepared to face Apache Spark Data Engineer interview in IT. What is the level of questions in this book? This book contains questions that are good for Software Engineer, Senior Software Engineer, Principal Engineer and Associate Architect level. What are the sample questions in this book? How will you minimize data transfer while working with Apache Spark? How does Spark Streaming work internally? What are the main features of Apache Spark? What is a Resilient Distribution Dataset in Apache Spark? What is a Transformation in Apache Spark? What are security options in Apache Spark? What are the two ways to create RDD in Spark? What are the main operations that can be done on a RDD in Apache Spark? What is a Shuffle operation in Spark? What are the operations that can cause a shuffle in Spark? What is purpose of Spark SQL? What is a DataFrame in Spark SQL? What is a Parquet file in Spark? What is the difference between Apache Spark and Apache Hadoop MapReduce? What are the main languages supported by Apache Spark? What is the use of SparkContext in Apache Spark? Do we need HDFS for running Spark application? What is Spark Streaming? What is a Pipeline in Apache Spark? How does Pipeline work in Apache Spark? What is the difference between Transformer and Estimator in Apache Spark? What are the different types of Cluster Managers in Apache Spark? What is the main use of MLib in Apache Spark? What is the Checkpointing in Apache Spark? What is an Accumulator in Apache Spark? What is a Broadcast variable in Apache Spark? What is Structured Streaming in Apache Spark? What is a Property Graph? What is Neighborhood Aggregation in Spark? What are different Persistence levels in Apache Spark? How will you select the storage level in Apache Spark? What are the options in Spark to create a Graph? What are the basic Graph operators in Spark? What is the partitioning approach used in GraphX of Apache Spark? <http://www.knowledgepowerhouse.com>

Knowledge Engineering and Management McGraw-Hill Companies

"The Encyclopedia of Microcomputers serves as the ideal

companion reference to the popular Encyclopedia of Computer Science and Technology. Now in its 10th year of publication, this timely reference work details the broad spectrum of microcomputer technology, including microcomputer history; explains and illustrates the use of microcomputers throughout academe, business, government, and society in general; and assesses the future impact of this rapidly changing technology." Encyclopedia of Microcomputers Springer

This book constitutes the refereed proceedings of the 5th Iberoamerican Conference and 4th Indo-American Conference on Knowledge Graphs and Semantic Web, KGSWC 2023, held jointly in Zaragoza, Spain, during November 13 – 15, 2023. The 18 full and 2 short papers presented were carefully reviewed and selected from 50 submissions. They focus on the following topics: knowledge representation; natural language processing/text mining; and machine/deep learning research.

Knowledge Management Information Today, Inc.

"This evidence-based book provides the framework and guidelines that professionals need for working with the contemporary explosion of data that is creating opportunities and challenges to all phases of our society and commerce."

–Larry R. Medsker, Research Professor in Physics and Data Science, The George Washington University Knowledge Management in Practice is a resource on how knowledge management (KM) is implemented. It provides specific KM methods, tips, techniques, and best practices to gain competitive advantage and the most from investing in KM. It examines how KM is leveraged by first responders, the military, healthcare providers, insurance and financial services companies, legal firms, human resources departments, merger and acquisition

(M&A) firms, and research institutions. Essential KM concepts are explored not only from a foundational perspective but also from a practical application. These concepts include capturing and codifying tacit and explicit knowledge, KM methods, information architecture, search, KM and social media, KM and Big Data, and the adoption of KM. Readers can visit the book's companion website, KM Mentor (www.KMMentor.com), where they can access: Presentations by industry leaders on a variety of topics KM templates and instruction on executing KM strategy, performing knowledge transfer, and KM assessments and audits KM program and project implementation guidance Insights and reviews on KM tools Guidance on implementing and executing various KM Methods Specialized KM publications A private secure collaboration community for members to discuss ideas and get expert answers and advice

Knowledge Engineering Elsevier

This book constitutes the refereed proceedings of the 12th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2000, held in Juan-les-Pins, France in October 2000. The 28 revised full papers and six revised short papers presented were carefully reviewed and selected from a high number of high-quality submissions. The book offers topical sections on knowledge modeling languages and tools, ontologies, knowledge acquisition from texts, machine learning, knowledge management and electronic commerce, problem solving methods, knowledge representation, validation, evaluation and certification, and methodologies.

2009 Pacific-Asia Conference on Knowledge Engineering and Software Engineering MacMillan Publishing Company

Organizational Learning and Knowledge: Concepts, Methodologies, Tools and Applications demonstrates exhaustively the many applications, issues, and techniques applied to the science of recording, categorizing, using and learning from the experiences and expertise acquired by the modern organization. A much needed collection, this multi-volume reference presents the theoretical foundations, research results, practical case studies, and future trends to both inform the decisions facing today's organizations and the establish fruitful organizational practices for the future.

Practitioners, researchers, and academics involved in leading organizations of all types will find useful, grounded resources for navigating the ever-changing organizational landscape.

2015 5th International Conference on Computer and Knowledge Engineering (ICCKE) Springer Nature

An Introduction to Knowledge Engineering presents a simple but detailed exp- ration of current and established work in the ?eld of knowledge-based systems and related technologies. Its

treatment of the increasing variety of such systems is designed to provide the reader with a substantial grounding in such techn- ologies as expert systems, neural networks, genetic algorithms, case-based reasoning systems, data mining, intelligent agents and the associated techniques and meth- ologies. The material is reinforced by the inclusion of numerous activities that provide opportunities for the reader to engage in their own research and re?ection as they progress through the book. In addition, self-assessment questions allow the student to check their own understanding of the concepts covered. The book will be suitable for both undergraduate and postgraduate students in computing science and related disciplines such as knowledge engineering, arti?cial intelligence, intelligent systems, cognitive neuroscience, robotics and cybernetics.

vii Contents Foreword vii 1 An Introduction to Knowledge Engineering. 1 Section 1: Data, Information and Knowledge 2 Section 2: Skills of a Knowledge Engineer 10 Section 3: An Introduction to Knowledge-Based Systems. 18 2 Types of Knowledge-Based Systems 26 Section 1: Expert Systems. 27 Section 2: Neural Networks. 36 Section 3: Case-Based Reasoning. 55 Section 4: Genetic Algorithms. 66 Section 5: Intelligent Agents. 74 Section 6: Data Mining 83 3 Knowledge Acquisition. 89 4 Knowledge Representation and Reasoning 108 Section 1: Using Knowledge. 109 Section 2: Logic, Rules and Representation 116 Section 3: Developing Rule-Based Systems 126 Section 4: Semantic Networks. Practical Knowledge Engineering Springer Science & Business Media

The volume includes a set of selected papers extended and

revised from the I2009 Pacific-Asia Conference on Knowledge Engineering and Software Engineering (KESE 2009) was held on December 19~ 20, 2009, Shenzhen, China. Volume 1 is to provide a forum for researchers, educators, engineers, and government officials involved in the general areas of Computer and Software Engineering to disseminate their latest research results and exchange views on the future research directions of these fields. 140 high-quality papers are included in the volume. Each paper has been peer-reviewed by at least 2 program committee members and selected by the volume editor Prof. Yanwen Wu. On behalf of this volume, we would like to express our sincere appreciation to all of authors and referees for their efforts reviewing the papers. Hoping you can find lots of profound research ideas and results on the related fields of Computer and Software Engineering.

Knowledge Engineering: Applications MIT Press

What value does semantic data modeling offer? As an information architect or data science professional, let's say you have an abundance of the right data and the technology to extract business gold—but you still fail. The reason? Bad data semantics. In this practical and comprehensive field guide, author Panos Alexopoulos takes you on an eye-opening journey through semantic data modeling as applied in the real world. You'll learn how to master this craft to increase the usability and value of your data and applications. You'll also explore the pitfalls to avoid and dilemmas to overcome for building high-quality and valuable semantic representations of data. Understand the fundamental concepts, phenomena, and processes related to semantic data modeling Examine the quirks and challenges of semantic data modeling and learn how to effectively leverage the available frameworks and tools Avoid mistakes and bad practices that can undermine your efforts to create good data models Learn about model development dilemmas, including representation, expressiveness and content, development, and governance Organize and execute semantic data initiatives in your organization, tackling technical, strategic, and organizational challenges

Knowledge Engineering and Knowledge Management. Methods, Models, and Tools IGI Global

Knowledge Management (KM) is strongly rooted in the discipline of Knowledge Engineering (KE), which in turn grew partly out of the artificial intelligence field. Despite their close relationship, however, many KM specialists have failed to fully recognize the synergy or acknowledge the power that KE methodologies, techniques, and tools hold for enh

Knowledge Management

McGraw Hill Professional

IT Perspectives Conference is a documentation of the top-level conference sponsored by the publishers of Computer Weekly, which aims to examine the issues that concern computer professionals and to provide at least some of the answers while indicating the directions which IT may be expected to take moving on to the 1990s. Leading figures from the IT industry and from major computer users show how they are tackling the transition from the limited task based approach of traditional computing to the more wide-ranging strategic issues implicit in the concept of information as a resource to be managed, used competitively, and even sold. In looking towards a future characterized by transaction-oriented systems, online databases, and distributed processing, the significance of tools such as fourth generation languages and computer-assisted software engineering is described and the vital role of communications at all levels from local area networks to the development of international standards is examined. This book will be useful to anyone wishing to discern the main trends in IT development and computer systems implementation as they set out to develop the systems of the 1990s.

Proceedings of the Seventh International Conference on Software Engineering and Knowledge Engineering Cambridge University Press

2012 International Conference on Software Engineering, Knowledge Engineering and Information Engineering (SEKEIE 2012) will be held in Macau, April 1-2, 2012. This conference will bring researchers and experts from the three areas of Software Engineering, Knowledge Engineering and Information Engineering together to share their latest research results and ideas. This volume book covered significant recent developments in the Software Engineering, Knowledge Engineering and Information Engineering field, both theoretical and applied. We are glad this conference attracts your attentions, and thank your support to our conference. We will absorb remarkable suggestion, and make our conference more successful and perfect.

Business Intelligence and Agile Methodologies for Knowledge-Based Organizations: Cross-Disciplinary Applications CRC Press

Issues raised by the Theory of Knowledge, a central theme in the development of Artificial Intelligence, are the main topic of this book. The major questions are: How is the expert's knowledge to be elicited, what are the limits and possibilities? How can skill be developed and maintained in a more and more computerized and abstract working life? This last question is also closely related to the discussion on programs for education and training in society and working life. Long term effects on

skill formation in working life in relation to new technology are aintangible assets such as information and knowledge.

very important area of research. Case studies form the basis for philosophical reflections with the main concept of tacit knowledge as the central issue of skill and new technology. To a great extent the discussion is based on current case studies of professional groups with experience in advanced computer technology. The contributions of this book demonstrate the complicated nature of human knowledge. They introduce different theoretical perspectives on the issue of knowledge acquisition and elicitation.

An Introduction to Expert Systems Springer Science & Business Media
The first volume of "Knowledge Engineering" presents state-of-the-art reviews and tutorials on fundamental aspects of knowledge engineering. The second volume complements the first by presenting applications of applied artificial intelligence (AI). The field of applied AI and knowledge engineering is very young. Students usually must refer to numerous sources to learn the fundamentals of the subject. The two volumes attempt to present summaries of the various subjects in a single document and are oriented toward practical applications. They are suitable as primary reference books in introductory courses on applied AI and knowledge engineering.

Knowledge Graphs and Semantic Web Routledge

It is a widely accepted that Knowledge Management constitutes a key asset for the information professional. Management theory has always pointed to the fact that libraries and librarians in particular play an important role in an organization (be it an enterprise, a city, or a society as a whole). The papers collected in this volume demonstrate why and how - from the libraries' perspective. They discuss some fundamental implications of Knowledge Management as a key activity area for libraries, analyse key issues and instruments and give some best practice examples. Among the contributing authors the reader will find Larry Prusak, James Matarazzo, Michael Koenig, Rafael Capurro, Susan Henczel, Irene Wormell and Rainer Kuhlen. The book brings together eighteen important texts for the topic not only from IFLA workshops and conferences but also from other sources such as the SLA (Special Libraries Association). The inclusion of several original contributions makes this reader essential for all concerned with the future role of the library in business and society.

Knowledge Engineering McGraw Hill Professional

Business intelligence applications are of vital importance as they help organizations manage, develop, and communicate

Organizations that have undertaken business intelligence initiatives have benefited from increases in revenue, as well as significant cost savings. Business Intelligence and Agile Methodologies for Knowledge-Based Organizations: Cross-Disciplinary Applications highlights the marriage between business intelligence and knowledge management through the use of agile methodologies. Through its fifteen chapters, this book offers perspectives on the integration between process modeling, agile methodologies, business intelligence, knowledge management, and strategic management.

The Education, Training, and Careers of Professional Engineers Knowledge Systems Inst

Nowadays, there is software everywhere in our life. It controls cars, airplanes, factories, medical implants. Without software, banking, logistics and transportation, media, and even scientific research would not function in the accustomed way. Building and maintaining software is a knowledge-intensive endeavour and requires that specific experiences are handled successfully. However, neither knowledge nor experience can be collected, stored, and shipped like physical goods, instead these delicate resources require dedicated techniques. Knowledge and experience are often called company assets, yet this is only part of the truth: it is only software engineers and other creative employees who will effectively exploit an organisation's knowledge and experience. Kurt Schneider's textbook is written for those who want to make better use of their own knowledge and experience - either personally or within their group or company. Everyone related to software development will benefit from his detailed explanations and case studies: project managers, software engineers, quality assurance responsables, and knowledge managers. His presentation is based on years of both practical experience, with companies such as Boeing, Daimler, and Nokia, and research in renowned environments, such as the Fraunhofer Institute. Each chapter is self-contained, it clearly states its learning objectives, gives in-depth presentations, shows the techniques' practical relevance in application scenarios, lists detailed references for further reading, and is finally completed by exercises that review the material presented and also challenge further, critical examinations. The overall result is a textbook that is equally suitable as a personal resource for self-directed learning and as the basis for a one-semester course on software engineering and knowledge management.

Knowledge Management Springer Science & Business Media

Report on a 1978 survey of career development, training and educational aspects of UK engineering graduates - analyses educational level trends, training courses taken, achievement of professional worker and managerial

occupational status, wages progression, current occupations, employees attitudes towards their jobs, etc. Graphs and questionnaires.

An Introduction to Knowledge Engineering Springer Science & Business Media

V. P. H. P.