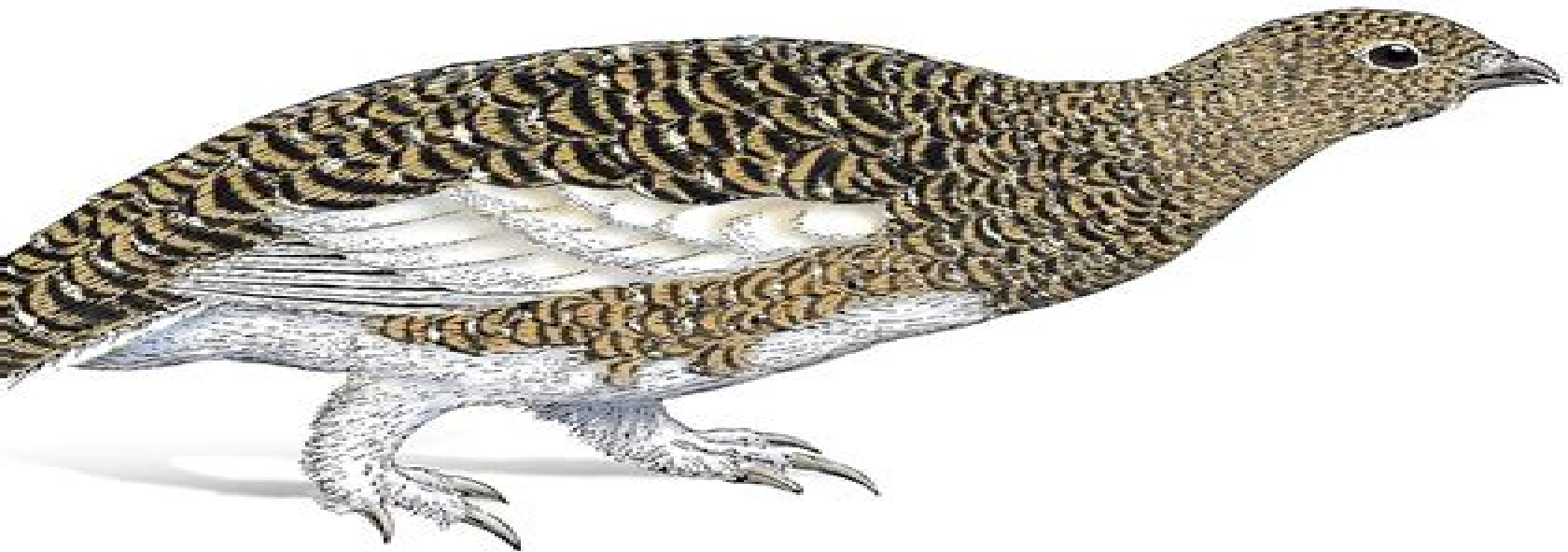


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Data Science with Semantic Technologies Archana Patel,Narayan C. Debnath,Bharat Bhusan,2022-10-26 DATA SCIENCE WITH SEMANTIC TECHNOLOGIES This book will serve as an important guide toward applications of data science with semantic technologies for the upcoming generation and thus becomes a unique resource for scholars researchers professionals and practitioners in this field To create intelligence in data science it becomes necessary to utilize semantic technologies which allow machine readable

representation of data This intelligence uniquely identifies and connects data with common business terms and it also enables users to communicate with data Instead of structuring the data semantic technologies help users to understand the meaning of the data by using the concepts of semantics ontology OWL linked data and knowledge graphs These technologies help organizations to understand all the stored data adding the value in it and enabling insights that were not available before As data is the most important asset for any organization it is essential to apply semantic technologies in data science to fulfill the need of any organization Data Science with Semantic Technologies provides a roadmap for the deployment of semantic technologies in the field of data science Moreover it highlights how data science enables the user to create intelligence through these technologies by exploring the opportunities and eradicating the challenges in the current and future time frame In addition this book provides answers to various questions like Can semantic technologies be able to facilitate data science Which type of data science problems can be tackled by semantic technologies How can data scientists benefit from these technologies What is knowledge data science How does knowledge data science relate to other domains What is the role of semantic technologies in data science What is the current progress and future of data science with semantic technologies Which types of problems require the immediate attention of researchers Audience Researchers in the fields of data science semantic technologies artificial intelligence big data and other related domains as well as industry professionals software engineers scientists and project managers who are developing the software for data science Students across the globe will get the basic and advanced knowledge on the current state and potential future of data science

Foundations of Data Science Dr. E. Manigandan, Dr. Sajja Suneel, Prof. Smitha G.V., Dr. S. Karthick, 2025-12-03

Foundations of Data Science introduces the core concepts and tools used to extract knowledge from data It covers data collection cleaning and preprocessing techniques Statistical methods provide a basis for data analysis and interpretation Data visualization helps communicate insights effectively The subject introduces basic machine learning concepts and algorithms Programming tools and libraries are used for data manipulation Ethical issues such as data privacy and bias are discussed Real world applications demonstrate data driven decision making Overall it provides a strong base for advanced studies in data science and analytics

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Advancing Data Science Education in K-12 Victor R. Lee, 2025-02-24 Advancing Data Science Education in K 12 offers a highly accessible research based treatment of the foundations of data science education and its increasingly vital role in K 12 instructional content As federal education initiatives and developers of technology enriched curricula attempt to incorporate the study of data science the generation capture and computational analysis of data at large scale into schooling a new slate of skills literacies and approaches is needed to ensure an informed effective and unproblematic deployment for young learners Friendly to novices and experts alike this book provides an authoritative synthesis of the most important research and theory behind data science education its implementation into K 12 curricula and clarity into the distinctions between data literacy and data science Learning with and about data hold equal and interdependent importance across these chapters conveying the variety of issues situations and decision making integral to a well rounded critically minded perspective on data science education Students and faculty in teaching leadership curriculum development and educational technology programs will come away with essential insights into the breadth of our current and future engagements with data the real world opportunities and challenges data holds when taught in conjunction with other subject matter in formal schooling and the nature of data as a human and societal construct that demands new competencies of today s learners

Scheduling Problems Rodrigo Righi,2020-07-08 Scheduling is defined as the process of assigning operations to resources over time to optimize a criterion Problems with scheduling comprise both a set of resources and a set of consumers As such managing scheduling problems involves managing the use of resources by several consumers This book presents some new applications and trends related to task and data scheduling In particular chapters focus on data science big data high performance computing and Cloud computing environments In addition this book presents novel algorithms and literature reviews that will guide current and new researchers who work with load balancing scheduling and allocation problems

Regional Knowledge Economies Eric Vaz,2024-12-21 This book investigates the multifaceted relationships between knowledge structures technology geography and regional science This includes a scholarly exploration of the role of geographical proximity in knowledge structures spatial spillovers the transformative potential of the metaverse in knowledge management and the historical and cultural influences on modern knowledge ecosystems It further scrutinizes the impact of technology on knowledge distribution the guiding role of institutions and organizations in knowledge societies and the value of cultural diversity for cross cultural knowledge exchange Addressing complex ethical privacy and accessibility challenges the book concludes by offering strategic insights for creating sustainable knowledge ecosystems making it an invaluable resource for researchers and professionals in the intersecting domains of technology geography regional science and beyond

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