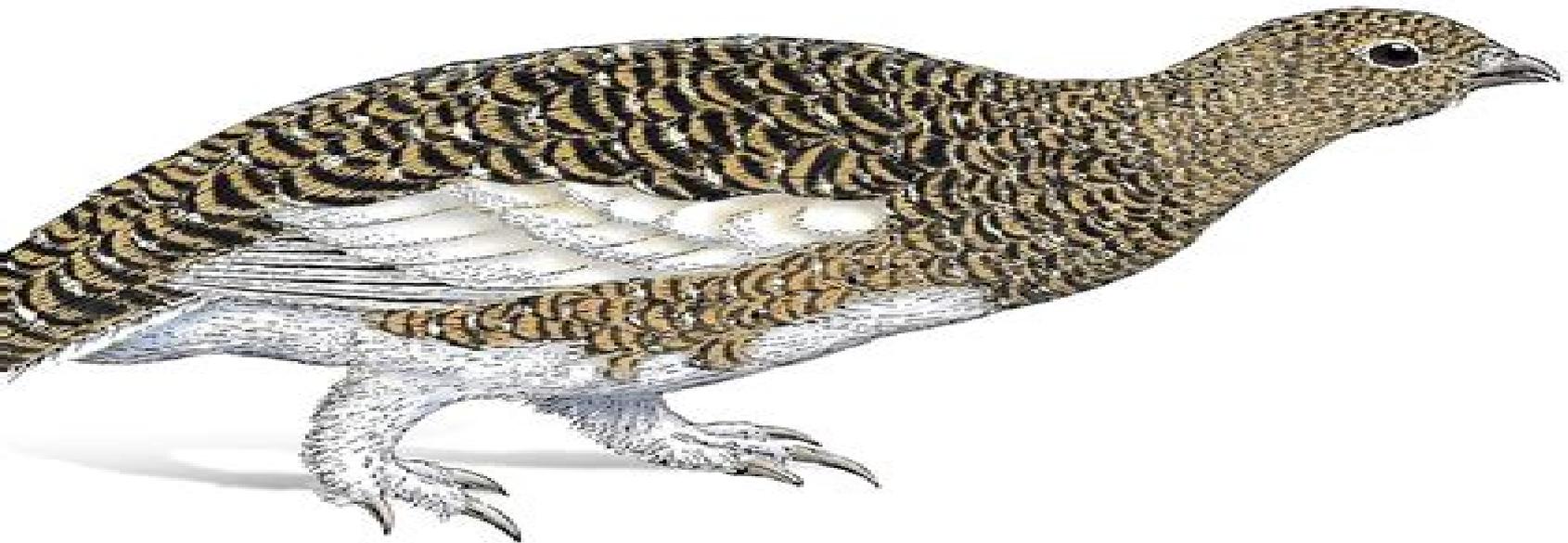# Data Science from Scratch

First Principles with Python

Joel Grus

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Victor R. Lee

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Data Science Pallavi Vijay Chavan,Parikshit N Mahalle,Ramchandra Mangrulkar,Idongesit Williams,2022-08-15 This book covers the topic of data science in a comprehensive manner and synthesizes both fundamental and advanced topics of a research area that has now reached its maturity The book starts with the basic concepts of data science It highlights the types of data and their use and importance followed by a discussion on a wide range of applications of data science and widely used techniques in data science Key Features Provides an internationally respected collection of scientific research methods technologies and applications in the area of data science Presents predictive outcomes by applying data science techniques to real life applications Provides readers with the tools techniques and cases required to excel with modern artificial intelligence methods Gives the reader a variety of intelligent applications that can be designed using data science and its allied fields The book is aimed primarily at advanced undergraduates and graduates studying machine learning and data science Researchers and professionals will also find this book useful **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

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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 **Data Science Job: How to become a Data Scientist** Przemek Chojecki,2020-01-31 We re living in a digital world Most of our global economy is digital and the sheer volume of data is stupendous It s 2020 and we re living in the future Data Scientist is one of the hottest job on the market right now Demand for data science is huge and will only grow and it seems like it will grow much faster than the actual number of data scientists So if you want to make a career change and become a data scientist now is the time This book will guide you through the process From my experience of working with multiple companies as a project manager a data science consultant or a CTO I was able to see the process of hiring data scientists and building data science teams I know what s important to land your first job as a data scientist what skills you should acquire what you should show during a job interview

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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 a 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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