

1. Record Nr.	UNINA9910847576503321
Autore	Igual Laura
Titolo	Introduction to Data Science [[electronic resource]] : A Python Approach to Concepts, Techniques and Applications // by Laura Igual, Santi Seguí
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
ISBN	3-031-48956-X
Edizione	[2nd ed. 2024.]
Descrizione fisica	1 online resource (255 pages)
Collana	Undergraduate Topics in Computer Science, , 2197-1781
Altri autori (Persone)	SeguíSanti VitriàJordi PuertasEloi RadevaPetia PujolOriol EscaleraSergio DantíFrancesc
Disciplina	001.42
Soggetti	Artificial intelligence - Data processing Data mining Python (Computer program language) Artificial intelligence Data Science Data Mining and Knowledge Discovery Python Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Introduction to Data Science -- 2. Toolboxes for Data Scientists -- 3. Descriptive statistics -- 4. Statistical Inference -- 5. Supervised Learning -- 6. Regression Analysis -- 7. Unsupervised Learning -- 8. Network Analysis -- 9. Recommender Systems -- 10. Statistical Natural Language Processing for Sentiment Analysis -- 11. Parallel Computing.
Sommario/riassunto	This textbook presents an introduction to the fundamentals of the interdisciplinary field of data science. The coverage spans key concepts

from statistics, machine/deep learning and responsible data science, useful techniques for network analysis and natural language processing, and practical applications of data science such as recommender systems or sentiment analysis. Topics and features: Provides numerous practical case studies using real-world data throughout the book Supports understanding through hands-on experience of solving data science problems using Python Describes concepts, techniques and tools for statistical analysis, machine learning, graph analysis, natural language processing, deep learning and responsible data science Reviews a range of applications of data science, including recommender systems and sentiment analysis of text data Provides supplementary code resources and data at an associated website This practically-focused textbook provides an ideal introduction to the field for upper-tier undergraduate and beginning graduate students from computer science, mathematics, statistics, and other technical disciplines. The work is also eminently suitable for professionals on continuous education short courses, and to researchers following self-study courses. Dr. Laura Igual is an Associate Professor at the Departament de Matemàtiques i Informàtica, Universitat de Barcelona, Spain. Dr. Santi Seguí is an Associate Professor at the same institution. The authors wish to mention that some chapters were co-written by Jordi Vitrià, Eloi Puertas, Petia Radeva, Oriol Pujol, Sergio Escalera.
