

Unlocking the Power of Data: Advances In Data Science And Information Engineering

In the era of digital transformation, data has become an indispensable asset for organizations seeking to gain competitive advantage. Advances in data science and information engineering have revolutionized the way we collect, process, analyze, and interpret data, empowering businesses and individuals alike to make informed decisions and drive innovation.



Advances in Data Science and Information Engineering: Proceedings from ICDATA 2024 and IKE 2024 (Transactions on Computational Science and Computational Intelligence) by Fred Vargas

★★★★☆ 4.2 out of 5

Language : English
Paperback : 186 pages
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Dimensions : 5 x 0.42 x 8 inches
File size : 28601 KB
Screen Reader : Supported
Print length : 1011 pages
X-Ray for textbooks : Enabled



This comprehensive guidebook provides a deep dive into the latest advancements in these fields, exploring cutting-edge techniques, real-world applications, and valuable insights to equip you with the knowledge and skills to harness the power of data effectively.

Chapter 1: Foundations of Data Science

This chapter lays the groundwork for understanding the fundamental concepts of data science, including:

- Data types and structures
- Data collection and preparation
- Exploratory data analysis
- Data visualization techniques
- Statistical and probabilistic methods

Chapter 2: Machine Learning and Artificial Intelligence

Explore the transformative power of machine learning and artificial intelligence, covering topics such as:

- Supervised and unsupervised learning algorithms
- Classification and regression models
- Neural networks and deep learning
- Natural language processing
- Applications in various domains (e.g., healthcare, finance, manufacturing)

Chapter 3: Data Analytics and Data Mining

Delve into the practical techniques used for extracting meaningful insights from data, including:

- Data mining algorithms (e.g., association rule mining, clustering)
- Data analytics tools and platforms
- Big data analytics and Hadoop ecosystem
- Case studies of successful data analytics projects

Chapter 4: Information Engineering

Gain an in-depth understanding of the principles and practices of information engineering, including:

- Data modeling and database design
- Data warehousing and data integration
- Data governance and data quality management
- Information systems architecture

Chapter 5: Applications and Case Studies

Explore real-world applications of data science and information engineering in various domains, such as:

- Healthcare: Disease diagnosis, drug discovery
- Finance: Risk assessment, fraud detection
- Manufacturing: Predictive maintenance, quality control
- Retail: Customer segmentation, personalized recommendations
- Transportation: Traffic optimization, autonomous vehicles

This guidebook serves as an invaluable resource for professionals, students, and anyone seeking to master the art of data science and information engineering. By embracing the insights and techniques presented in this book, you can unlock the power of data to drive innovation, enhance decision-making, and transform your organization into a data-driven enterprise.

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Computer Science, Technology and Applications

Computer Science Advances

Research and Applications

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Editor



WHAT DOES A MACHINE LEARNING PIPELINE CONTAIN?



Sample Dashboard

Sign ups in last 7 days

2,130

Revenue in last 7 days

\$4,250

Visitors in last 7 days

4,210

Revenue By Source



Monthly Sign Ups



Monthly Visitors by Source



Top Performing Support Agents

Agent	Support Tickets	Customer Satisfaction	Response Time
John Doe	120	4.8	2h
Jane Smith	110	4.7	2h
Mike Johnson	100	4.6	2h
Sarah Brown	90	4.5	2h
David White	80	4.4	2h
Emily Green	70	4.3	2h
Chris Black	60	4.2	2h
Alexander Grey	50	4.1	2h
Olivia Pink	40	4.0	2h
Lucas Blue	30	3.9	2h

Sub-Domains: EA Domains are further divided into sub-domains depending on the elements within a domain.



6 REAL-WORLD APPLICATIONS OF HEALTHCARE DATA ANALYTICS



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