IT BUSINESS EDGE

Big Data and Health Analytics

Data availability is surpassing existing paradigms for governing, managing, analyzing, and interpreting health data. **Big Data and Health Analytics** provides frameworks, use cases, and examples that illustrate the role of Big Data and analytics in modern health care, including how public health information can inform health delivery.

Written for health care professionals and executives, this is not a technical book on the use of statistics and machine-learning algorithms for extracting knowledge out of data, nor a book on the intricacies of database design. Instead, this book presents the current thinking of academic and industry researchers and leaders from around the world.

Using non-technical language, this book is accessible to health care professionals who might not have an IT and analytics background. It includes case studies that illustrate the business processes underlying the use of Big Data and health analytics to improve health care delivery.

Highlighting lessons learned from the case studies, the book supplies readers with the foundation required for further specialized study in health analytics and data management. Coverage includes community health information, information visualization which offers interactive environments and analytic processes that support exploration of EHR data, the governance structure required to enable data analytics and use, federal regulations and the constraints they place on analytics, and information security.

The chapter excerpt focuses on how effective data architecture must lay out the life cycle of data, from definition to capture, storage, management, integration, distribution, and analysis.

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- Intro Page.pdf
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