

Figure 1. Magic Quadrant for Data Quality Solutions



Source: Gartner (July 2020)

2017 Gartner Magic Quadrant For Data Quality Tools

Barrett Williams, ChatGPT



2017 Gartner Magic Quadrant For Data Quality Tools:

Big Data in Complex Systems Aboul Ella Hassanien,Ahmad Taher Azar,Vaclav Snasael,Janusz Kacprzyk,Jemal H. Abawajy,2015-01-02 This volume provides challenges and Opportunities with updated in depth material on the application of Big data to complex systems in order to find solutions for the challenges and problems facing big data sets applications Much data today is not natively in structured format for example tweets and blogs are weakly structured pieces of text while images and video are structured for storage and display but not for semantic content and search Therefore transforming such content into a structured format for later analysis is a major challenge Data analysis organization retrieval and modeling are other foundational challenges treated in this book The material of this book will be useful for researchers and practitioners in the field of big data as well as advanced undergraduate and graduate students Each of the 17 chapters in the book opens with a chapter abstract and key terms list The chapters are organized along the lines of problem description related works and analysis of the results and comparisons are provided whenever feasible **Handbook of Research on Digital Transformation, Industry Use Cases, and the Impact of Disruptive Technologies** Wynn, Martin George,2021-10-15 Companies from various sectors of the economy are confronted with the new phenomenon of digital transformation and are faced with the challenge of formulating and implementing a company wide strategy to incorporate what are often viewed as disruptive technologies These technologies are sometimes associated with significant and extremely rapid change in some cases with even the replacement of established business models Many of these technologies have been deployed in unison by leading edge companies acting as the catalyst for significant process change and people skills enhancement The Handbook of Research on Digital Transformation Industry Use Cases and the Impact of Disruptive Technologies examines the phenomenon of digital transformation and the impact of disruptive technologies through the lens of industry case studies where different combinations of these new technologies have been deployed and incorporated into enterprise IT and business strategies Covering topics including chatbot implementation multinational companies cloud computing internet of things artificial intelligence big data and analytics immersive technologies and social media this book is essential for senior management IT managers technologists computer scientists cybersecurity analysts academicians researchers IT consultancies professors and students Meeting the Challenges of Data Quality Management Laura Sebastian-Coleman,2022-01-25 Meeting the Challenges of Data Quality Management outlines the foundational concepts of data quality management and its challenges The book enables data management professionals to help their organizations get more value from data by addressing the five challenges of data quality management the meaning challenge recognizing how data represents reality the process quality challenge creating high quality data by design the people challenge building data literacy the technical challenge enabling organizational data to be accessed and used as well as protected and the accountability challenge ensuring organizational leadership treats data as an asset Organizations that fail to meet these

challenges get less value from their data than organizations that address them directly The book describes core data quality management capabilities and introduces new and experienced DQ practitioners to practical techniques for getting value from activities such as data profiling DQ monitoring and DQ reporting It extends these ideas to the management of data quality within big data environments This book will appeal to data quality and data management professionals especially those involved with data governance across a wide range of industries as well as academic and government organizations Readership extends to people higher up the organizational ladder chief data officers data strategists analytics leaders and in different parts of the organization finance professionals operations managers IT leaders who want to leverage their data and their organizational capabilities people processes technology to drive value and gain competitive advantage This will be a key reference for graduate students in computer science programs which normally have a limited focus on the data itself and where data quality management is an often overlooked aspect of data management courses Describes the importance of high quality data to organizations wanting to leverage their data and more generally to people living in today s digitally interconnected world Explores the five challenges in relation to organizational data including Big Data and proposes approaches to meeting them Clarifies how to apply the core capabilities required for an effective data quality management program data standards definition data quality assessment monitoring and reporting issue management and improvement as both stand alone processes and as integral components of projects and operations Provides Data Quality practitioners with ways to communicate consistently with stakeholders

Database Design, Application Development, and Administration Michael Mannino, 2018-09-01 Formerly published by Chicago Business Press now published by Sage Database Design Application Development and Administration Seventh Edition offers a comprehensive understanding of database technology Author Michael Mannino equips students with the necessary tools to grasp the fundamental concepts of database management and then guides them in honing their skills to solve both basic and advanced challenges in query formulation data modeling and database application development

Enterprise AI Shazia Sadiq, 2025 This book provides perspectives and deliberations on the barriers and opportunities for Enterprise AI as well as a range of state of the art approaches that can facilitate AI adoption more widely

Modern Data Strategy Mike Fleckenstein, Lorraine Fellows, 2018-02-12 This book contains practical steps business users can take to implement data management in a number of ways including data governance data architecture master data management business intelligence and others It defines data strategy and covers chapters that illustrate how to align a data strategy with the business strategy a discussion on valuing data as an asset the evolution of data management and who should oversee a data strategy This provides the user with a good understanding of what a data strategy is and its limits Critical to a data strategy is the incorporation of one or more data management domains Chapters on key data management domains data governance data architecture master data management and analytics offer the user a practical approach to data management execution within a data strategy The

intent is to enable the user to identify how execution on one or more data management domains can help solve business issues This book is intended for business users who work with data who need to manage one or more aspects of the organization s data and who want to foster an integrated approach for how enterprise data is managed This book is also an excellent reference for students studying computer science and business management or simply for someone who has been tasked with starting or improving existing data management

New Knowledge in Information Systems and Technologies Álvaro Rocha,Hojjat Adeli,Luís Paulo Reis,Sandra Costanzo,2019-03-29 This book includes a selection of articles from The 2019 World Conference on Information Systems and Technologies WorldCIST 19 held from April 16 to 19 at La Toja Spain WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and challenges in modern information systems and technologies research together with their technological development and applications The book covers a number of topics including A Information and Knowledge Management B Organizational Models and Information Systems C Software and Systems Modeling D Software Systems Architectures Applications and Tools E Multimedia Systems and Applications F Computer Networks Mobility and Pervasive Systems G Intelligent and Decision Support Systems H Big Data Analytics and Applications I Human Computer Interaction J Ethics Computers K Health Informatics L InformationTechnologies in Education M Information Technologies in Radiocommunications and N Technologies for Biomedical Applications

Integration Challenges for Analytics, Business Intelligence, and Data Mining Azevedo, Ana,Santos, Manuel Filipe,2020-12-11 As technology continues to advance it is critical for businesses to implement systems that can support the transformation of data into information that is crucial for the success of the company Without the integration of data both structured and unstructured mining in business intelligence systems invaluable knowledge is lost However there are currently many different models and approaches that must be explored to determine the best method of integration Integration Challenges for Analytics Business Intelligence and Data Mining is a relevant academic book that provides empirical research findings on increasing the understanding of using data mining in the context of business intelligence and analytics systems Covering topics that include big data artificial intelligence and decision making this book is an ideal reference source for professionals working in the areas of data mining business intelligence and analytics data scientists IT specialists managers researchers academicians practitioners and graduate students

data quality tools Second Edition Gerardus Blokdyk, **Toward Quality Data** Yng-Yuh Richard Wang,1992

Data-Driven Growth Barrett Williams,ChatGPT,2025-09-11 Unleash the transformational power of data with Data Driven Growth your essential guide to navigating the complex world of data analytics and turning insights into action In today s fast paced business landscape data isn t just an asset it s the driving force behind innovation and success This comprehensive eBook serves as your roadmap detailing every step of the journey from understanding foundational concepts to executing advanced analytics strategies Begin with a deep dive into the data revolution and discover why businesses today

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Bigeye Integrations for Data Quality Engineering William Smith, 2025-08-20 Bigeye Integrations for Data Quality Engineering Bigeye Integrations for Data Quality Engineering is an essential guide for modern data professionals seeking to engineer robust production grade data quality across today s increasingly complex ecosystems This comprehensive resource explores the foundational principles of data quality engineering delves into the architecture and observability mechanisms of the Bigeye platform and offers nuanced frameworks for evaluating and implementing Bigeye within diverse data environments From initial requirements gathering and platform comparison through solution fit analysis readers are equipped to make informed decisions regarding data quality strategies tailored to business technical and regulatory needs The book methodically covers the integration of Bigeye with leading databases data warehouses ETL ELT tools and data orchestration platforms Readers gain hands on knowledge of secure access schema discovery partitioned data monitoring and lineage capture while also mastering integrations with polyglot data stacks Advanced chapters address embedding monitors into workflows handling pipeline failures CI CD automation and orchestrating transactional or streaming data quality checks Enterprise use cases are further enriched with best practices around alerting incident management regulatory compliance and collaboration via integration with popular notification and ticketing systems Aimed at architects engineers and data scientists this book goes beyond technical depth to encompass governance privacy and extensibility covering API usage SDKs plugin development and the evolving landscape of ML and analytics integration Special emphasis is placed on scaling performance tuning disaster recovery and the future of data quality engineering including cloud native serverless and real time paradigms Bigeye Integrations for Data Quality

Engineering stands as an authoritative reference for engineering trustworthy scalable data pipelines in the enterprise

Data Analytics and Quality Management Fundamental Tools Joseph Nguyen, 2023-11-12 This book will teach you the fundamental tools that are commonly used in data analytics particularly in quality management and continuous improvement kaizen There are also exercises and quizzes to help you become acquainted with these powerful tools as well as a resource table for quick reference in the appendix You will learn 1 The purpose of each tool when to use it and how to use it individually how to synthesize them for complex problems 2 errors to avoid when collecting and analyzing data and 3 an overview of the relationship between these tools and data analytics particularly business intelligence and big data You will receive a quick reference guide of all 17 tools The goal is by the end of this book you will be a data engineer in training of these tools and be able to select the appropriate tools for your data analytics projects

Bigeye Data Quality Monitoring in Practice William Smith, 2025-08-19 Bigeye Data Quality Monitoring in Practice Bigeye Data Quality Monitoring in Practice is an in depth guide to modern data quality assurance designed for engineers data leaders and practitioners seeking to elevate trust and reliability in their data ecosystems The book meticulously explores foundational principles such as accuracy completeness and consistency drawing clear distinctions between legacy data profiling and contemporary automated observability It delves into the true business costs of poor data quality highlights regulatory considerations and unpacks the critical role of scalable real time monitoring in today s complex data architectures The text navigates all facets of implementing Bigeye a leading data observability platform from architectural fundamentals and system integration to deployment strategies across cloud on premises and hybrid environments Readers will gain practical expertise in designing robust data quality monitors using statistical techniques anomaly detection and even machine learning while managing scalability performance and cost Additionally the book demystifies alerting incident management and the integration of Bigeye with modern orchestration warehousing BI and governance tools enabling organizations to transform reactive fire fighting into proactive automated data reliability workflows With a thorough examination of security privacy and compliance including strategies for handling PII and aligning with standards such as SOC 2 and GDPR the book provides actionable guidance for deploying trustworthy monitoring across enterprise environments Real world use cases illuminate patterns for cross team collaboration multi tenancy and demonstrating tangible ROI while forward looking chapters address innovations like AI driven monitoring and autonomous self healing data pipelines Bigeye Data Quality Monitoring in Practice offers both a blueprint and a visionary outlook for building resilient compliant and future proof data platforms

Prepare Your Data for Tableau Tim Costello, Lori Blackshear, 2019-12-17 Focus on the most important and most often overlooked factor in a successful Tableau project data Without a reliable data source you will not achieve the results you hope for in Tableau This book does more than teach the mechanics of data preparation It teaches you how to look at data in a new way to recognize the most common issues that hinder analytics and how to mitigate those factors one by one Tableau can change the course of

business but the old adage of garbage in garbage out is the hard truth that hides behind every Tableau sales pitch That amazing sales demo does not work as well with bad data The unfortunate reality is that almost all data starts out in a less than perfect state Data prep is hard Traditionally we were forced into the world of the database where complex ETL Extract Transform Load operations created by the data team did all the heavy lifting for us Fortunately we have moved past those days With the introduction of the Tableau Data Prep tool you can now handle most of the common Data Prep and cleanup tasks on your own at your desk and without the help of the data team This essential book will guide you through The layout and important parts of the Tableau Data Prep tool Connecting to data Data quality and consistency The shape of the data Is the data oriented in columns or rows How to decide Why does it matter What is the level of detail in the source data Why is that important Combining source data to bring in more fields and rows Saving the data flow and the results of our data prep work Common cleanup and setup tasks in Tableau Desktop What You Will Learn Recognize data sources that are good candidates for analytics in Tableau Connect to local server and cloud based data sources Profile data to better understand its content and structure Rename fields adjust data types group data points and aggregate numeric data Pivot data Join data from local server and cloud based sources for unified analytics Review the steps and results of each phase of the Data Prep process Output new data sources that can be reviewed in Tableau or any other analytics tool Who This Book Is For Tableau Desktop users who want to connect to data profile the data to identify common issues clean up those issues join to additional data sources and save the newly cleaned joined data so that it can be used more effectively in Tableau

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