

Geeky News Discusses the Evolution of Manufacturing and the Power of Data Analytics



Surrey, United Kingdom Oct 31, 2023 ([IssueWire.com](https://www.IssueWire.com)) - Geeky News, a leading technology and lifestyle journal, is pleased to announce the release of a new article titled "Harnessing the Power of Big Data and Analytics in Modern Manufacturing." This article delves into the transformative role of data analytics and cloud-enabled solutions in the ever-evolving landscape of modern manufacturing.

In the era of Industry 4.0, traditional manufacturing processes are being reshaped by cloud-based solutions. This transition has evolved cloud technology from a disruptive innovation into a fundamental element of the future of manufacturing. The article highlights the pivotal role that analytics play in the manufacturing sector.

Key takeaways from the article include:

The Rise of Cloud-Enabled Manufacturing: The adoption of the Industrial Internet of Things (IIoT) is gaining momentum, and digital manufacturing is set to revolutionise the industry. The article explores the advantages that these technological advancements bring to forward-thinking businesses.

Challenges and Solutions: The article sheds light on the challenges manufacturers face, such as

quality control inconsistencies, equipment maintenance issues, production bottlenecks, and supply chain disruptions. It emphasises the importance of a centralised manufacturing data and analytics platform to address these challenges effectively.

Essential Components of Cloud-Enabled Manufacturing Operations: The article breaks down the key components of cloud-enabled manufacturing, including the three-tier architecture, operational technology (OT) security, and analytics at the edge. These components are pivotal in ensuring seamless integration and enhanced operational efficiency.

Choosing Between On-Premises and Cloud Solutions: It offers insights into how to make informed decisions about the selection of on-premises or cloud-based solutions, depending on the specific manufacturing challenge at hand.

Navigating the Journey Towards Cloud-Enabled Manufacturing: The article provides a roadmap for organisations embarking on the journey towards cloud-enabled manufacturing. It includes guidance on defining scope, assessing applications, measuring ROI, and choosing migration strategies.

The Transition to Smart Data in Manufacturing: The article highlights the evolution from big data to smart data and the critical role of analytics in achieving this transformation. It emphasises the significance of context and clarity in data analysis.

Applications of Big Data in Manufacturing: The article delves into various applications of big data in manufacturing, including production process optimisation, process improvement, tool optimization, increased yield, predictive maintenance, quality control, and supply chain management.

The Role of Cloud Platforms, Advanced Analytics, and Artificial Intelligence: The article mentions [Ease.io](#) and its new blog post discussing analytics in manufacturing. It highlights the importance of cloud platforms, advanced analytics, and artificial intelligence in harnessing the potential of big data for manufacturing optimisation.

Readers can find the full article on Geeky News, to gain insights and perspectives on the evolution of manufacturing and the power of data analytics: <https://www.geekynews.co.uk/big-data-analytics-modern-manufacturing/>

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