

A Review - Impact of Industry 4.0 in Supply Chain

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Abstract

This paper focuses on understanding the importance of implementing Industry 4.0 technology in the supply chain as many companies are still using traditional supply chains and are suffering from high costs, whereas there are companies that are either afraid to move towards Industry 4.0 or have no idea of how to proceed. The framework of this paper was created by reviewing the latest published articles. Furthermore, the paper explores the capability of industry 4.0 in attaining sustainability and highlights the need to have more research on the practical implementation of industry 4.0 in the supply chain for empirical understanding. By reviewing the latest published articles, it is true to say that industry 4.0 technology has a positive impact on the growth of the organisation. With the proper implementation of Industry 4.0 in the supply chain, attainment of such benefits is possible. After doing the systematic Analysis of the papers, individual benefits of industry 4.0 technologies can be identified, and it can be seen many of the organizations did try to implement Industry 4.0 technologies in order to attain more responsive outcome but didn't succeed because of lack of efficient approach and understanding of the same. Organisations need to be proactively engaged in business and implement industry 4.0 technologies to attain economic, environmental, and social objectives. For implementing industry 4.0 in the supply chain, it is very important for organisations to have a proper roadmap defining the existing technologies, the number of suppliers for each product and its components, and future goals. As this will enable the managers to decide which technology, they need to have in their organisation to attain the desired goals. Also researchers need to focus on the practical implementation of various technologies in the supply chain in order to provide the strategic direction to the businesses, they need to dig deep to carry forward the researchers and provide empirical understanding on the application of industry 4.0 in supply chain.

Keywords

Industry 4.0, Supply Chain, Sustainable Development, Implementation of Technology, Smart Factory

Biographies

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