ARTIFICIAL INTELLIGENCE AT THE SERVICE OF THE PHARMACEUTICAL INDUSTRY

Artificial intelligence (AI) has transformed numerous industrial sectors, and the pharmaceutical industry is no exception. In recent years, its use has revolutionized the way pharmaceutical companies operate in research, drug development, production processes, and supply chain management, as well as in patient relations and the benefits this entails. All this while following ethical and responsible usage guidelines agreed upon by the entire industry.

AI WILL GENERATE SIGNIFICANT VALUE THROUGHOUT THE PHARMACEUTICAL VALUE CHAIN

The use cases analyzed in this report were evaluated based on their indirect contribution to the value of a typical innovative pharmaceutical company with a 20% operating margin. Each use case was related to a business function, such as operations, research and development (R&D), commercial, and enablement functions.

DIGITAL TRANSFORMATION IN THE PHARMACEUTICAL SECTOR: THE IMPACT OF AI ON SUPPLY CHAIN MANAGEMENT

AI improves inventory control, management, and demand forecasting, surpassing traditional methods.

The role of AI in improving efficiency and timely delivery in pharmaceutical supply chain management.

Case studies in India, Switzerland, and China show how AI boosts pharmaceutical operations while addressing local problems.

A note on 3D printing and personalized medicine and their relationship to supply chain management.

IN CONCLUSION

The implementation of Artificial Intelligence in the pharmaceutical and logistics system represents a significant transformation that optimizes processes, reduces costs, and improves operational efficiency. In the pharmaceutical sector, AI facilitates the research and development of new drugs, accelerates the analysis of large volumes of clinical data, and contributes to personalized medicine, increasing the safety and efficacy of treatments.