

Artificial intelligence applications and challenges: Exploring the impact of artificial intelligence on the telecommunications industry: Applications and Challenges

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Abstracts

Artificial Intelligence (AI) is one of the most disruptive technologies of this decade and has the potential to transform every aspect of our society, including vertical industries. Telecom operators are transforming themselves into AI companies, starting with the automation of their network operations. On the other hand, the emergence of numerous generative AI tools has led to a significant increase in adoption, impacting various aspects of the telecom sector.

This report focuses on several key questions:

What are the different concepts of AI , including machine learning, deep learning and generative AI? What are the main components of AI, and what is the AI value chain? How do telecom operators position themselves in the AI value chain?vWhat are the main AI applications in the telecom sector?

Finally, what are the challenges that operators face when adopting AI?

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