

Challenges with Personalization in Supply Chain

Welcome to Unit 4 of our AI for Logistics and Supply Chain course. Today we'll be exploring the complexities of personalization in the context of supply chain management, examining the opportunities and challenges it presents.



Recap: AI and Supply Chain Resiliency

AI-Powered Optimization

We covered how AI can optimize logistics routes, inventory management, and demand forecasting, improving efficiency and reducing costs. Enhanced Visibility

AI provides real-time visibility into the supply chain, enabling proactive responses to disruptions and ensuring consistent delivery.

Guess the Topic: Can you identify the challenges?



Understanding Personalization in Supply Chain



Barriers to Personalization: Cost, Data, Technology



High Costs

Investment in AI, data infrastructure, and personalized processes. 2

Data Privacy and Security

Gathering and managing customer data while ensuring compliance.

3 Technological Limitations

Adapting existing systems and integrating new AI technologies.



Case Study: Customized Shoe Manufacturing

Nike By You

Customers design their own shoes with a variety of customization options. This allows for mass personalization and unique creations.

Challenges

Production complexity and inventory management for a wide range of personalized options. Data collection and privacy concerns.



Case Study: Personalized Pharma Packaging



Medication Reminders

Labels with reminders and dosage instructions for individual patient needs.



Child-resistant Packaging

Customized child-resistant caps based on age and medication type.

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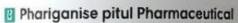
Multilingual Labels

Adapting packaging labels for different languages based on patient location and preference.



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Interactive Quiz: Test Your Knowledge

What is the primary challenge of personalization in supply chain?

a) High costs, b) Data privacy,c) Technological limitations,d) All of the above

Which company offers personalized shoe manufacturing?

a) Nike, b) Adidas, c) Puma, d) Reebok

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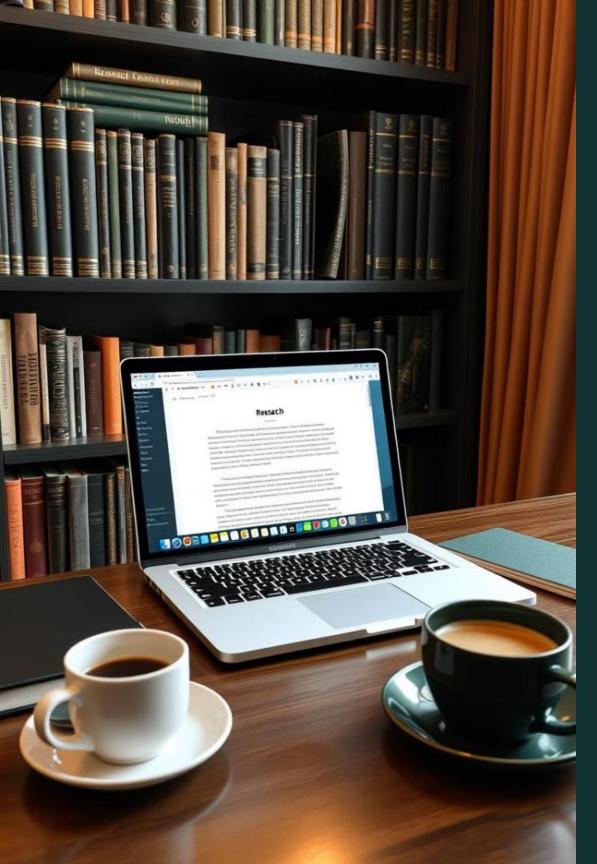
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Summary: Key Takeaways





References: Recommended Readings and Resources

- The Connected Supply Chain: How to Break Down Barriers and Transform Business
- AI in Supply Chain Management: A Comprehensive Guide to Concepts, Trends, and Applications
- Forbes Article: How Artificial Intelligence Is Changing the Future of Supply Chain
- Harvard Business Review: The New Rules of Personalization •