Ethical Issues in Al

Welcome to Unit 5 of AI for Logistics and Supply Chain: Ethical Issues and Sustainability. Today, we'll explore the ethical considerations surrounding Artificial Intelligence (AI) and its implications for the logistics and supply chain industry.





Recap: Key Takeaways from Previous Presentation

Al in Logistics

We discussed the various applications of Al in logistics, such as route optimization, demand forecasting, and warehouse automation.

Benefits of Al

We explored the potential benefits of AI, including increased efficiency, cost savings, and improved customer satisfaction.

Guess the Topic: Can You Identify the Key Ethical Challenges?

Bias

Can Al systems perpetuate existing societal biases?

Privacy

How can we protect sensitive data used by Al systems?

Accountability

Who is responsible when Al makes a mistake?



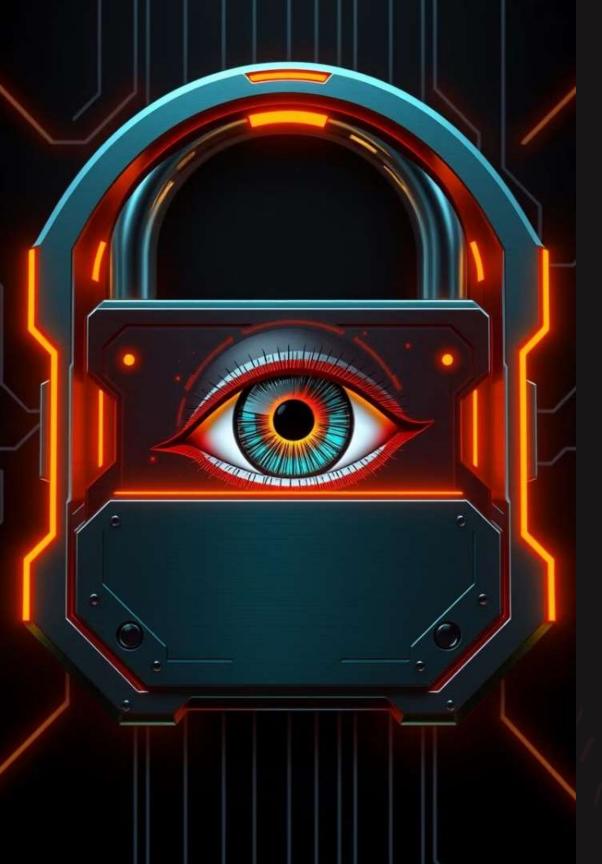


Bias in AI: Examples and Implications

Algorithmic Bias

Al algorithms can
perpetuate existing
biases, leading to unfair
outcomes.

2 Impact on Logistics
Biased AI can lead to
unfair hiring practices,
discriminatory pricing,
and skewed resource
allocation.



Privacy and Security Concerns with Al



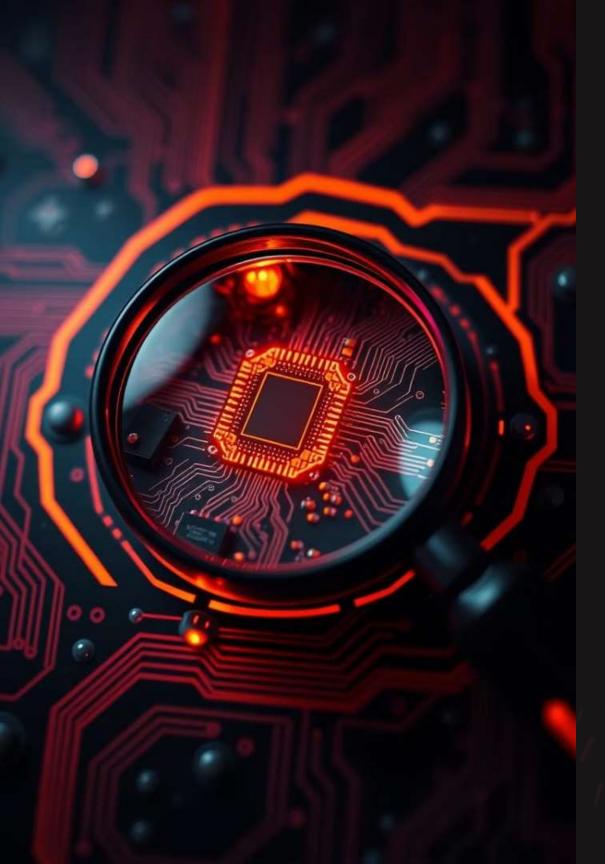
Data Collection

Al systems collect and analyze vast amounts of personal data, raising concerns about privacy.



Security Risks

Al systems are vulnerable to cyberattacks, which could compromise sensitive data.



Al Transparency and Accountability

_____ Explainability

It's crucial to understand how AI systems arrive at their decisions.

Responsibility

Who is responsible for the decisions made by Al systems?

Regulation

Developing ethical guidelines and regulations for Al is essential.



Ethical Dilemmas in Autonomous Vehicles

1

2

3

Collision Avoidance

How should autonomous vehicles choose between different collision scenarios?

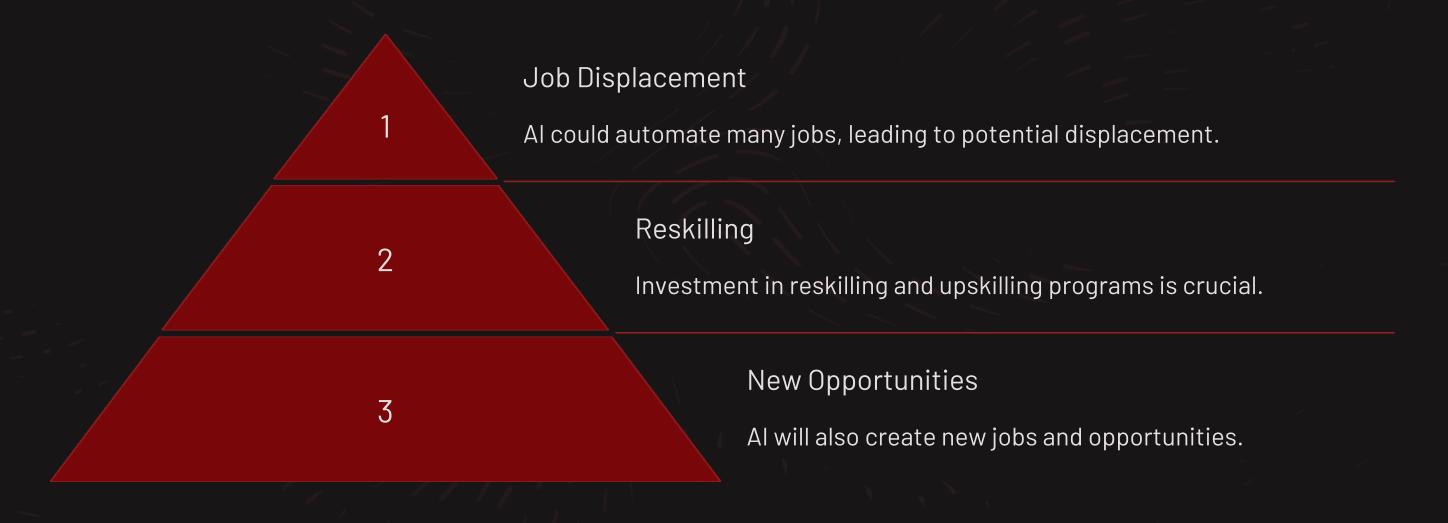
Liability

Who is responsible for accidents involving autonomous vehicles?

Privacy Concerns

How to protect passenger data collected by autonomous vehicles?

Al and the Future of Work: Displacement and Reskilling



Test Your Knowledge: Interactive Quiz

1

Bias

What are the potential consequences of biased AI in logistics?

2

Privacy

How can we protect sensitive data used by Al systems?

3

Accountability

Who is responsible for the decisions made by Al systems?





Conclusion and Key Takeaways

Al presents both opportunities and challenges. Ethical considerations are crucial for responsible development and deployment of Al in the logistics and supply chain industry. As we move forward, it's important to prioritize transparency, accountability, and fairness in the development and use of Al.