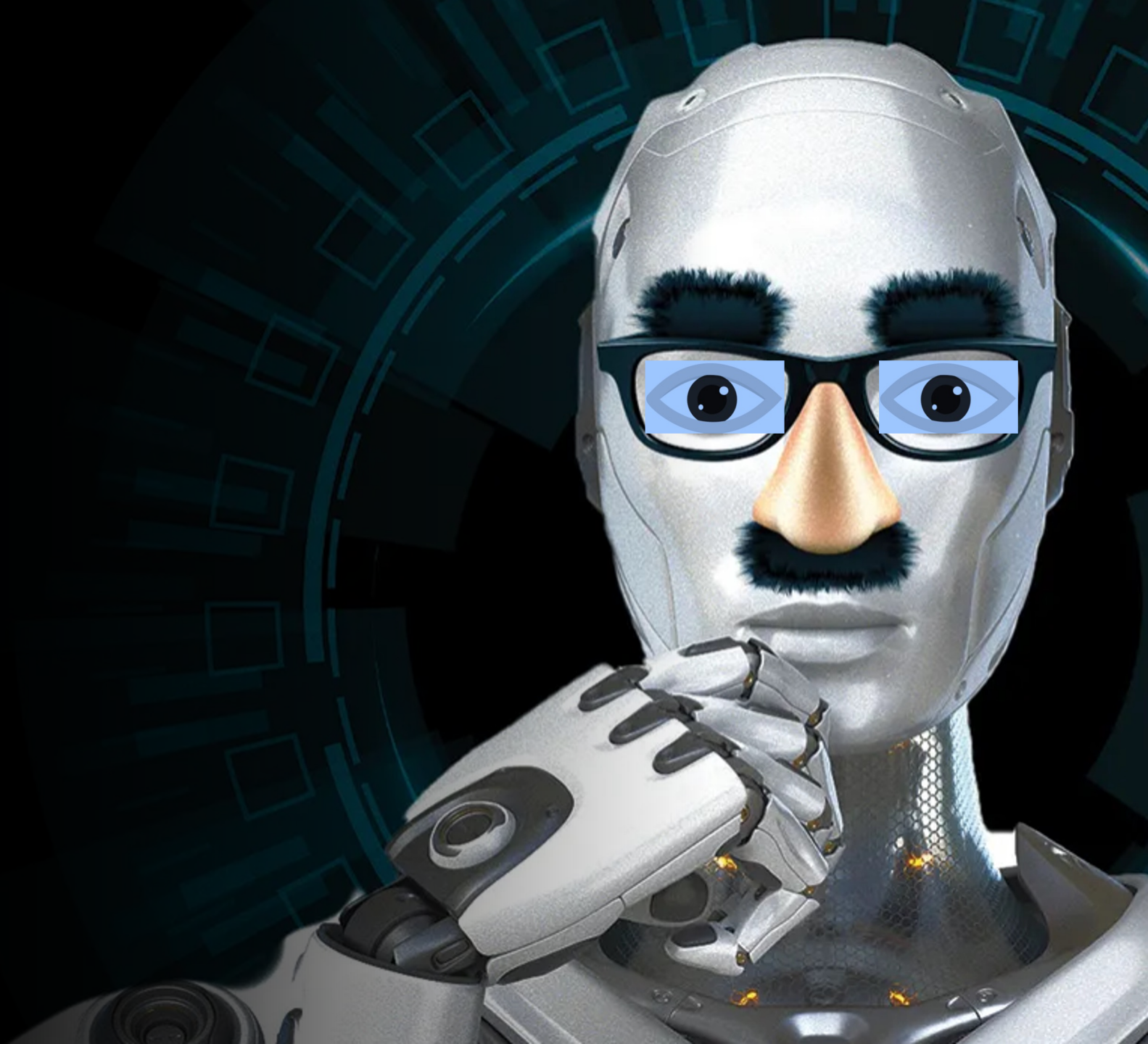
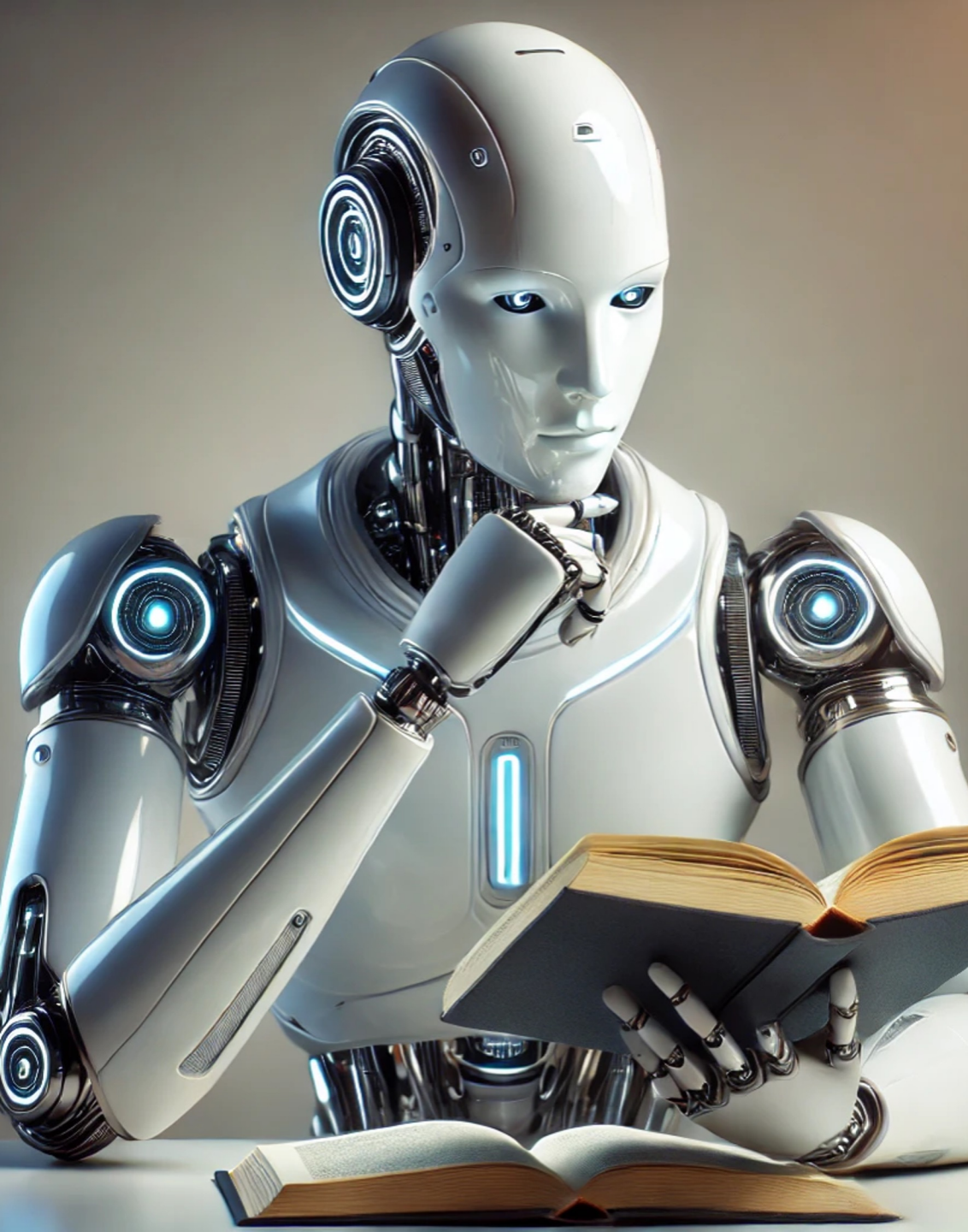


AI for Developing Countries CSSDs: **Threat** or **Opportunity?**

Hamid Zare Shah Mers

Iran





What is AI?



**Machine Learning
(ML):**



Neural Networks



Deep Learning:

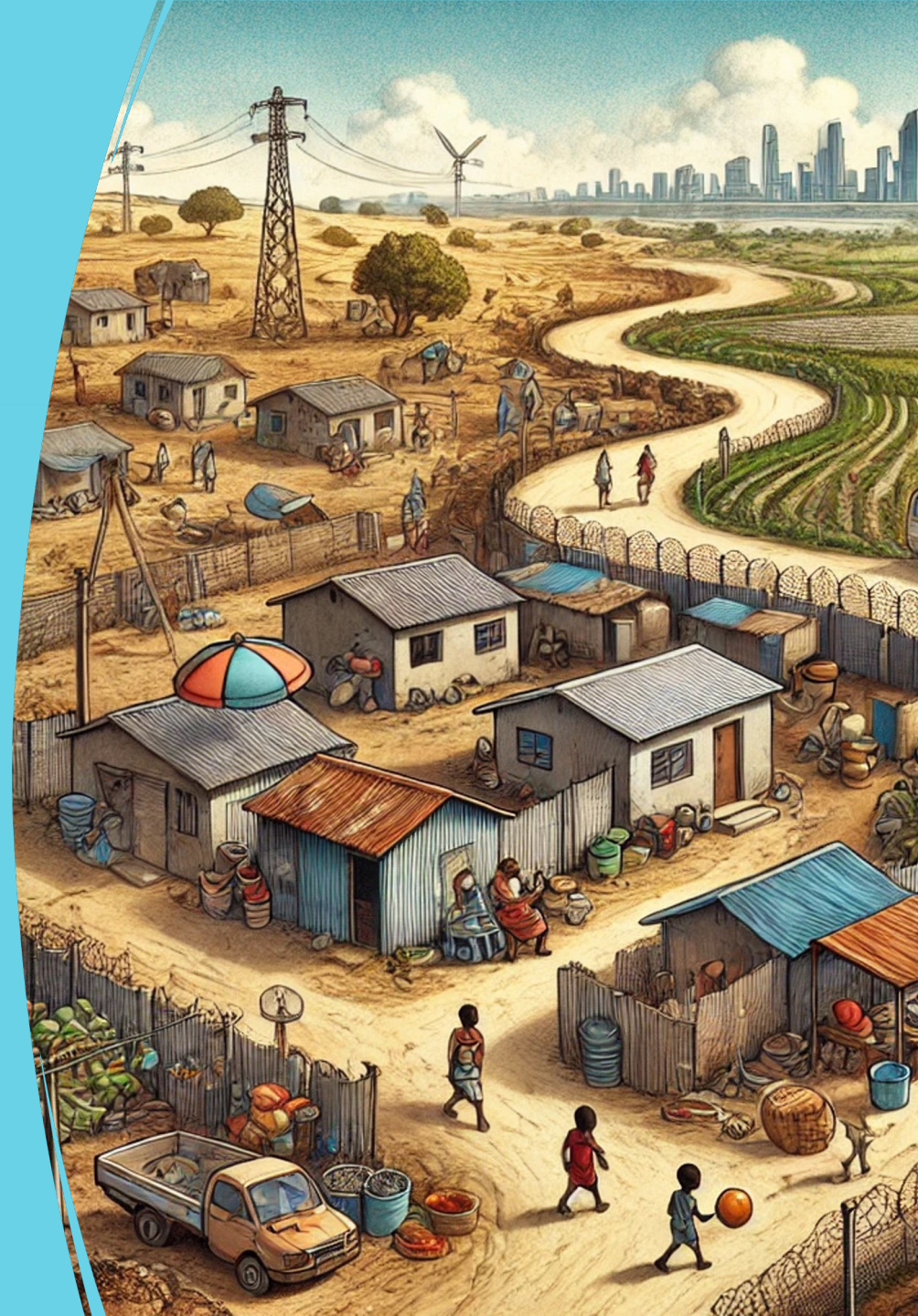
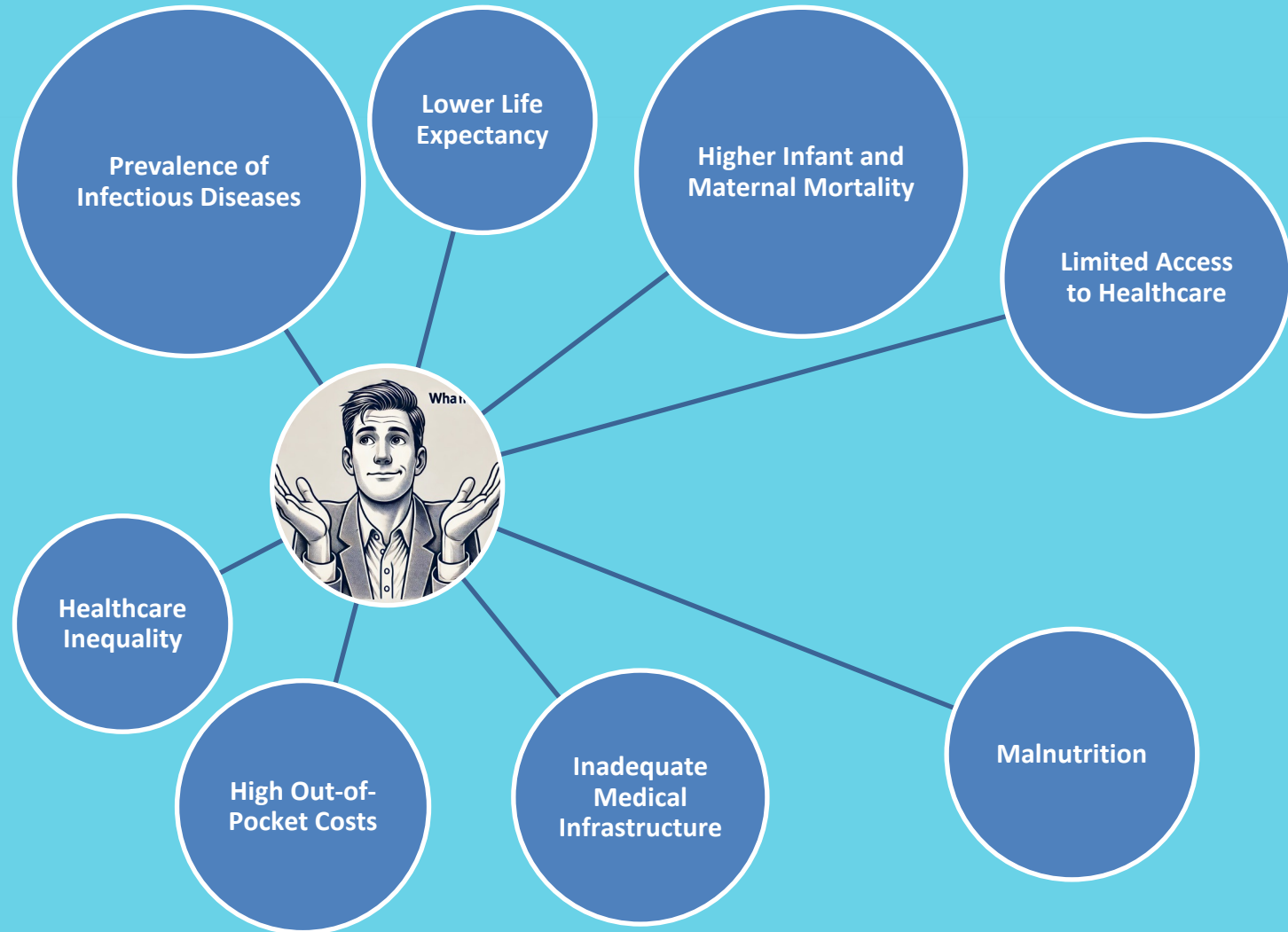


**Natural Language
Processing (NLP):**



Computer Vision

What is developing country by healthcare aspect?



Challenges:

Limited
resources,
outdated
equipment, lack
of trained
personnel

Opportunities:

Modernization
with low-cost
solutions,
increased
healthcare
investment

1

Case Studies and Real-World Examples

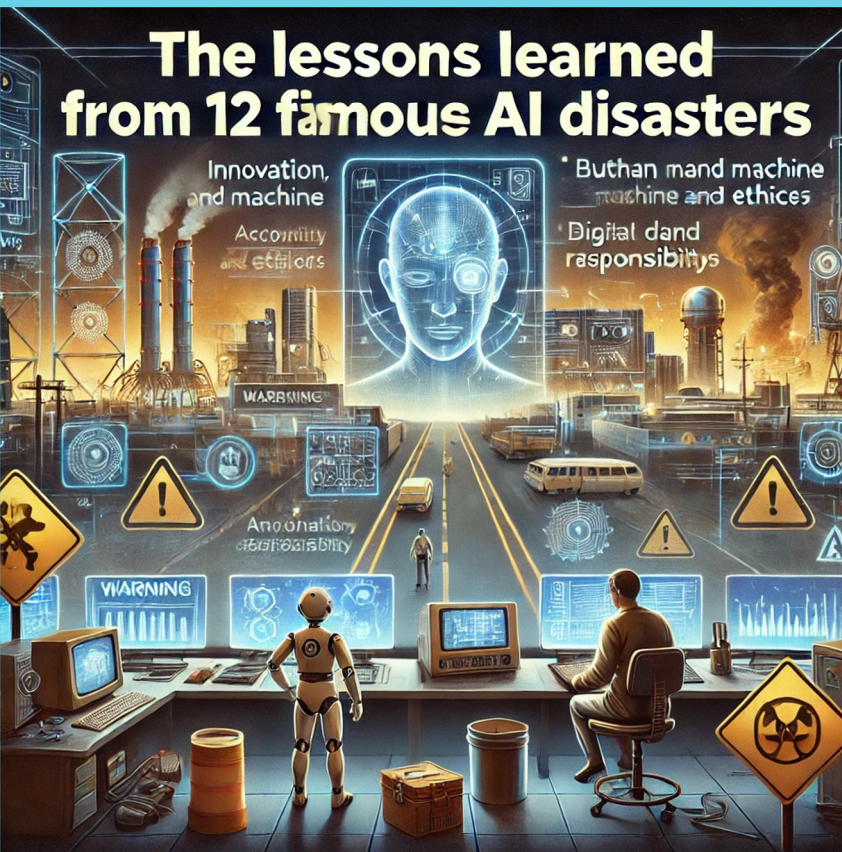
Amazon's AI-Driven Supply Chain: A Blueprint for the Future of Global Logistics



- **Accurate Demand Forecasting:** AI enhances prediction of product demand, reducing overstock and stockouts.
- **Real-Time Inventory Management:** AI optimizes inventory tracking, leading to efficient stock control.
- **Logistics Optimization:** AI improves delivery routes, speeds up shipping, and reduces costs.
- **Automation:** Robotics automate warehouse operations, increasing efficiency.
- **Resilience During Disruptions:** AI-enabled systems allow quick adaptation to unexpected events, like COVID-19.

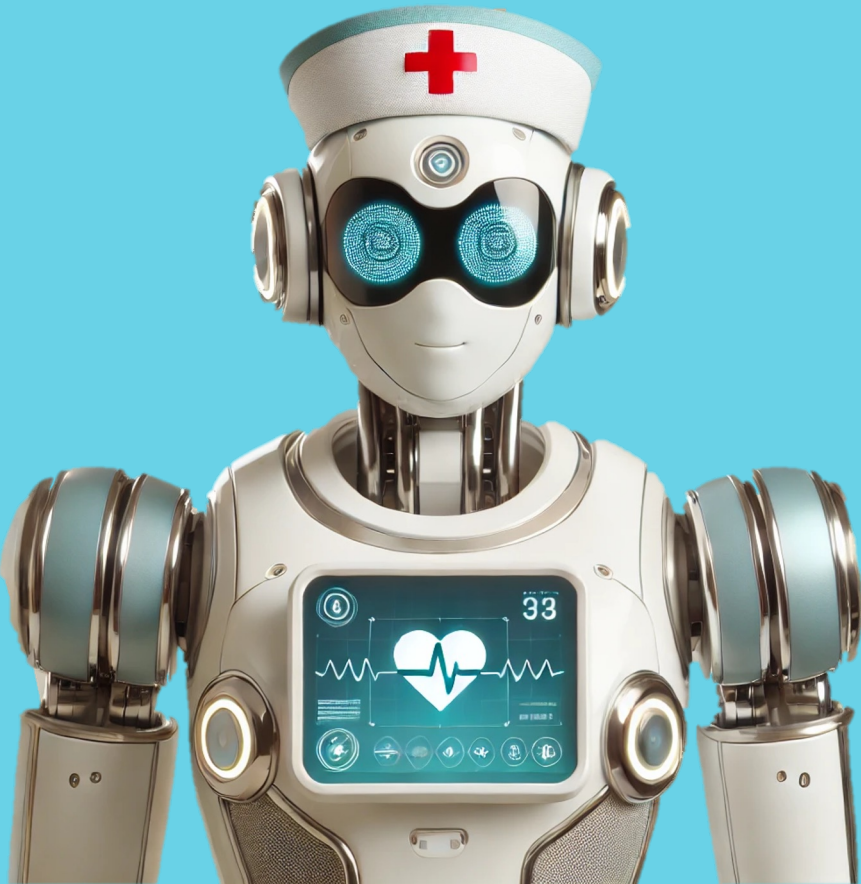


12 famous AI disasters



- McDonald's ends AI experiment after drive-thru ordering blunders
- Grok AI falsely accuses NBA star of vandalism spree
- NYC AI chatbot encourages business owners to break the law
- Air Canada pays damages for chatbot lies
- Sports Illustrated may have published AI-generated writers
- iTutor Group's recruiting AI rejects applicants due to age
- ChatGPT hallucinates court cases
- AI algorithms identify everything but COVID-19
- Zillow wrote down millions, slashed workforce due to algorithmic home-buying disaster
- Healthcare algorithm failed to flag Black patients
- Dataset trained Microsoft chatbot to spew racist tweets
- Amazon AI-enabled recruitment tool only recommended men

how AI Can CSSDs Transform



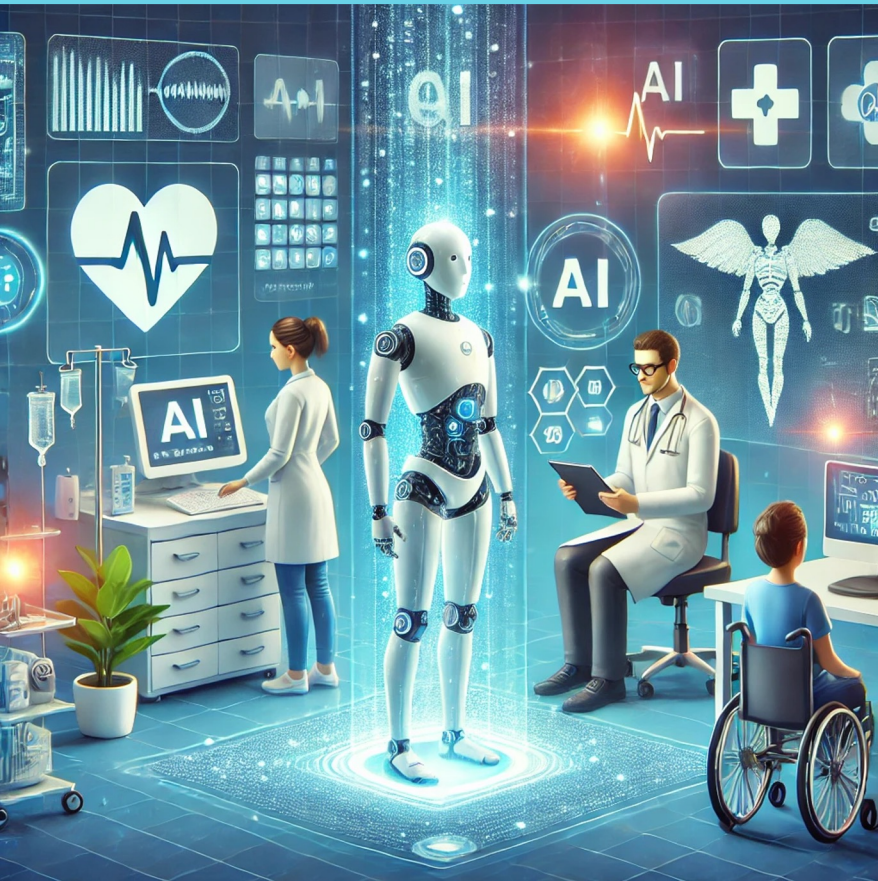
- Automating Sterilization Processes: Consistency & Predictive Maintenance

- Monitoring and Quality Control: Real-time data analysis

- Data Management & Decision-Making: Inventory & procedure optimization

- Training & Skill Development: AI-powered simulations

in AI opportunities Provided by CSSDs



- Increased Efficiency: Automation of routine tasks

- Cost Reduction: Lowering errors and optimizing resources

- Improved Safety: Enhanced sterilization standards

- Scalability: From small clinics to large hospitals

Threats and Challenges of AI Implementation

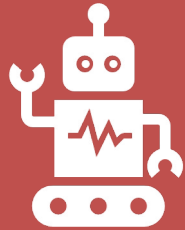


- Initial Costs: High technology costs
- Lack of Expertise: Technical training needs
- Ethical & Privacy Concerns: Data security
- Technological Dependency: Impact on decision-making skills

Future Outlook and Recommendations



Conclusion

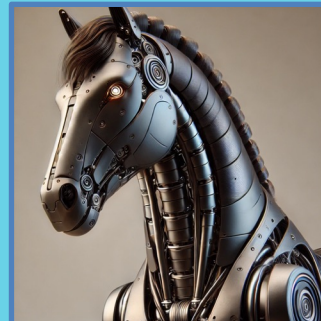
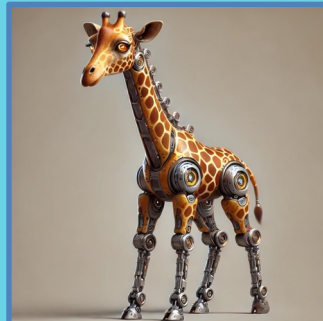


- SUMMARY OF AI'S ROLE: THREAT &
OPPORTUNITY



- CALL TO ACTION: INVEST IN LOCALIZED,
AFFORDABLE, AND ETHICAL AI
SOLUTIONS

All pictures made by AI





Q&A Section

Prepare for questions on AI technologies, ethics, and cost-benefit analysis.