



AI Technologies and Their Societal Impact

This presentation explores how artificial intelligence is reshaping our world—from everyday conveniences to profound ethical questions.



by S MM

AI: powering progress



Transforming Industries



Manufacturing

AI-powered robots handle complex assembly tasks. Predictive maintenance systems reduce downtime by 40%.



Healthcare

Algorithms detect diseases from medical images with 95% accuracy. Virtual nurses monitor patients remotely.



Finance

Automated trading systems execute millions of transactions per second. Fraud detection algorithms save billions annually.

AI in Daily Life

AI has quietly become embedded in our everyday routines. We barely notice its presence.

The average person interacts with AI systems at least 20 times daily.



Voice assistants organize our schedules and answer questions instantly.



Recommendation engines suggest products, content, and routes.

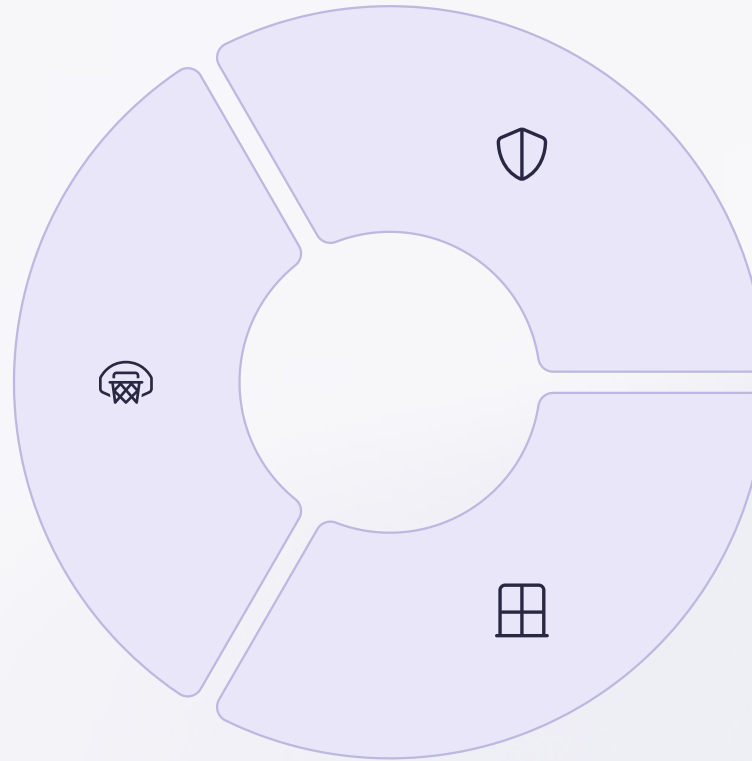


Smart homes adjust temperature, lighting, and security automatically.

Ethical Concerns

Bias

AI systems inherit human biases from training data. Facial recognition is 99% accurate for white men but fails for darker-skinned women.



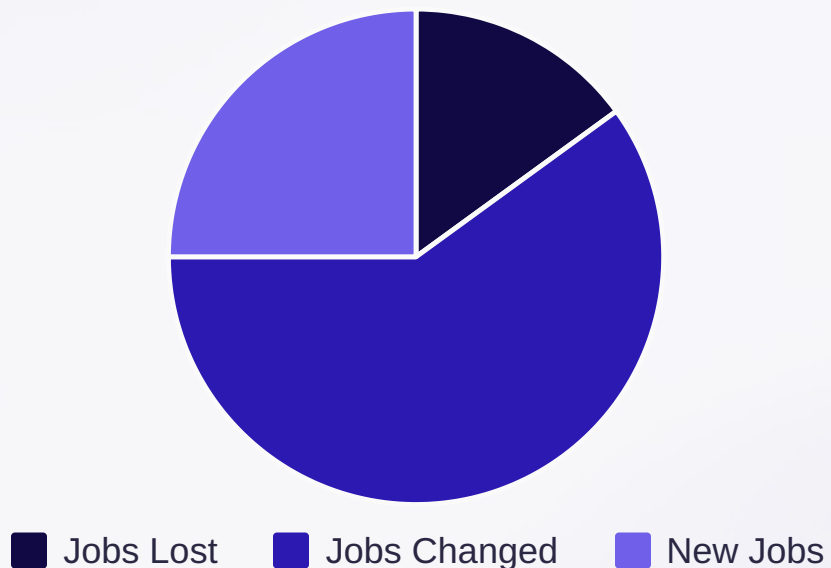
Privacy

Personal data fuels AI development. Companies collect 2.5 quintillion bytes of data daily. Users often consent unknowingly.

Transparency

Complex neural networks function as "black boxes." Decisions affecting millions remain unexplainable to humans.

AI and Employment



The Employment Paradox

AI will eliminate some jobs but create others. Most positions will transform rather than disappear.

Up to 375 million workers may need to switch occupations by 2030.

New roles like AI ethics officers and human-machine teaming managers are emerging.



Facial Recognition: Case Study



Technology

Systems map 80+ facial points to create unique signatures. They process 1,000+ faces simultaneously in crowds.



Applications

Used by law enforcement in 24+ countries. Deployed in airports, schools, and retail stores worldwide.



Concerns

Creates potential for mass surveillance. Error rates are significantly higher for non-white faces.

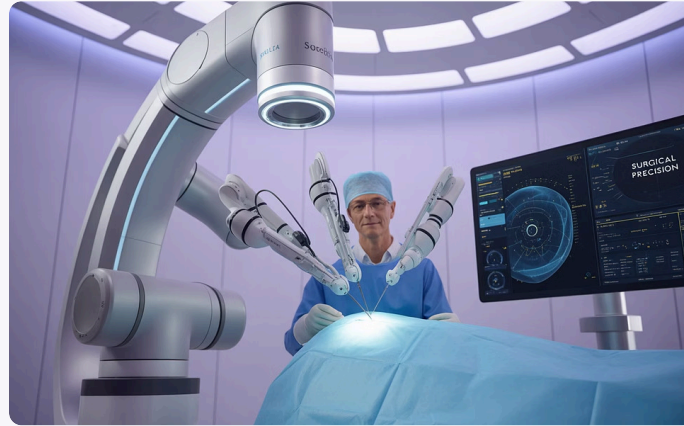
San Francisco and Boston have banned government use of facial recognition technology. The EU is considering similar restrictions.

AI in Healthcare



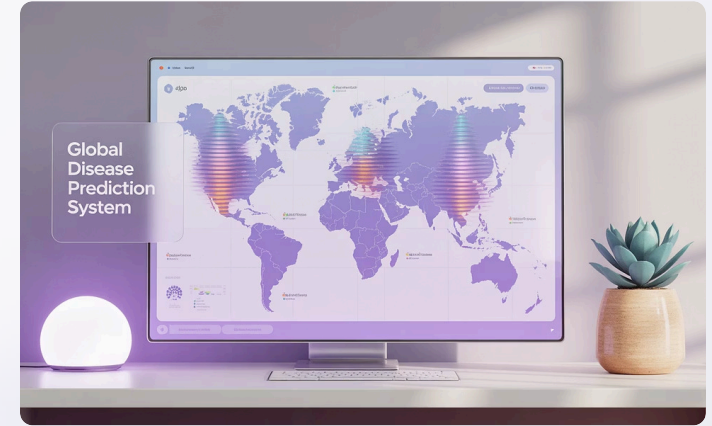
Diagnosis

AI systems detect lung cancer 26% more accurately than radiologists. They identify diabetic retinopathy with 90% precision.



Treatment

Robot-assisted surgeries reduce complications by 21%. AI determines optimal drug dosages for individual patients.



Prevention

Algorithms predict disease outbreaks weeks in advance. They identify high-risk patients before symptoms appear.



AI Ethics: Navigating the Future

Navigating Our AI Future

Education

Develop AI literacy. Understand both capabilities and limitations. Question algorithmic decisions.

Participation

Engage in AI ethics discussions. Support responsible development. Demand transparency from companies.

Adaptation

Embrace lifelong learning. Develop uniquely human skills. Prepare for collaboration with AI systems.

The future of AI depends on thoughtful human guidance. You are an essential part of this conversation.