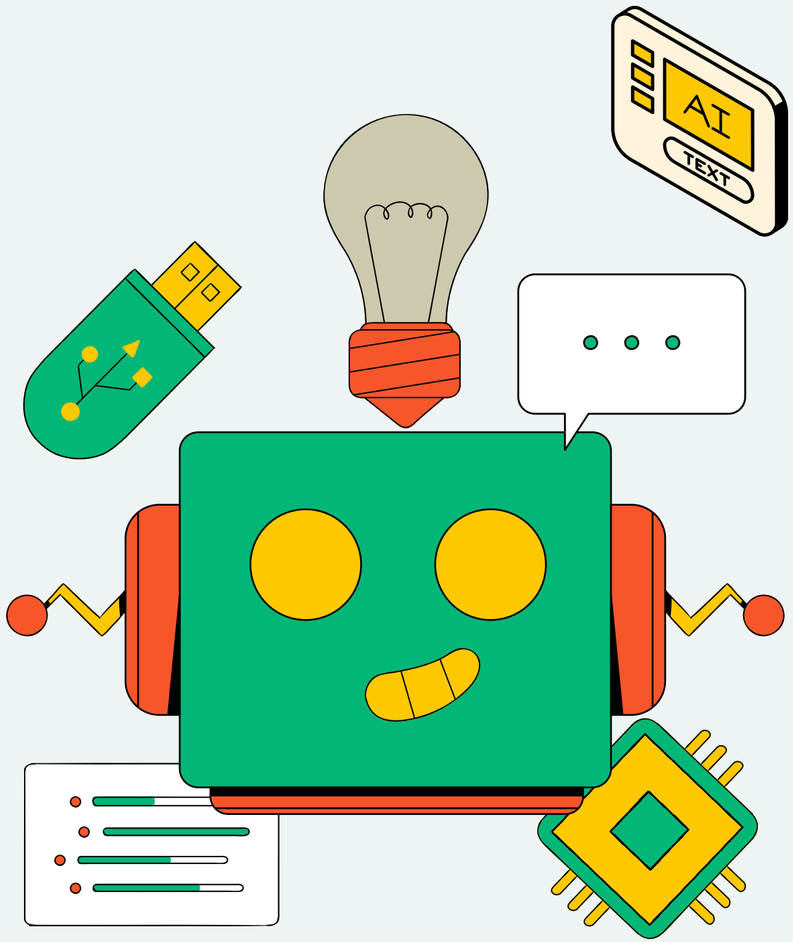
THYNK UNLIMITED

WE LEARN FOR THE FUTURE

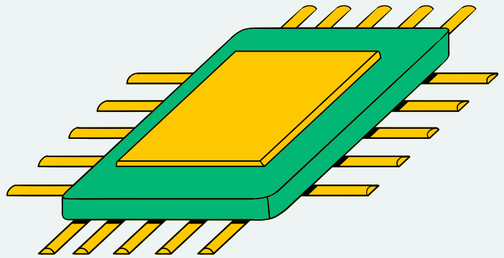


EMERGING PLATFORMS:

REVOLUTIONIZING TECHNOLOGY AND BUSINESS

PRESENTED BY:

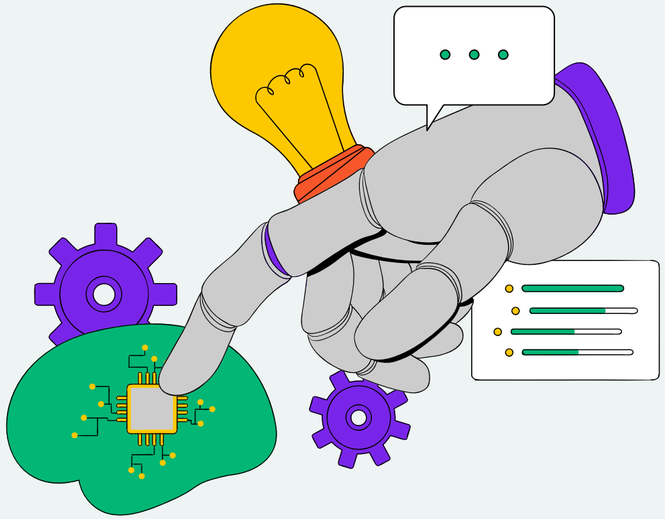
GROUP 5



WHAT ARE EMERGING PLATFORMS?

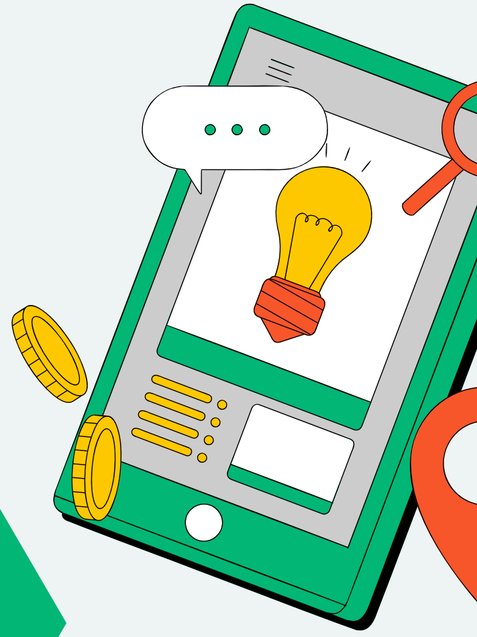
- Emerging platforms refer to new technologies like Blockchain, IoT, AI, and Machine Learning that are transforming industries.
- They provide a foundation for innovation, improving efficiency and automation.

WHAT IS BLOCKCHAIN?



Blockchain is a decentralized, digital ledger that records transactions across a network of computers. It ensures transparency, security, and immutability by storing data in blocks that are linked together in chronological order.

KEY CHARACTERISTICS



Security

Immutability

Transparency

Decentralization

APPLICATION OF BLOCKCHAIN

- Cryptocurrency
- Supply Chain Management
- Financial Services

WHAT IS INTERNET OF THINGS?

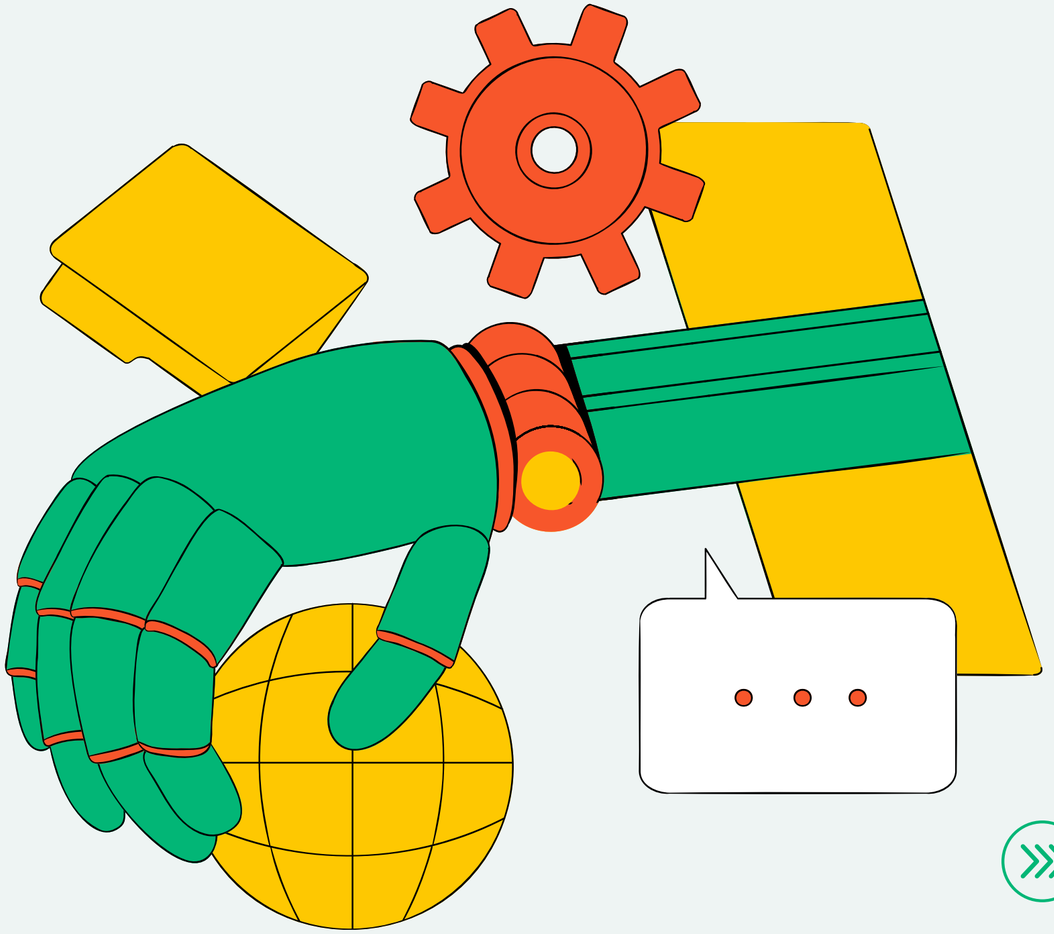
- A network of interconnected physical devices that communicate and exchange data.

Examples:

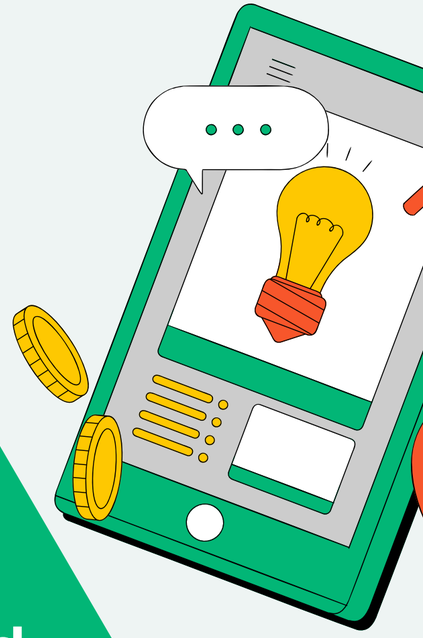
- Smart homes
- Connected Cars
- Industrial IoT
- Healthcare wearables

APPLICATIONS OF IOT

- Smart Cities
- Autonomous vehicles
- Agriculture
- Healthcare Monitoring



CHALLENGES OF IOT



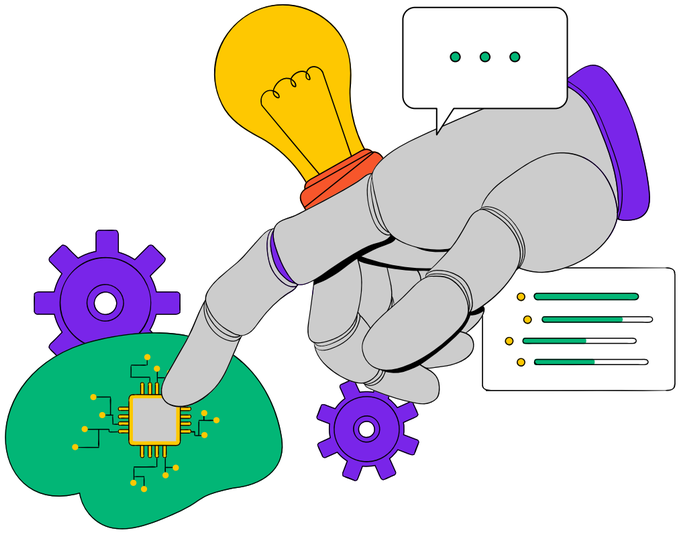
Privacy

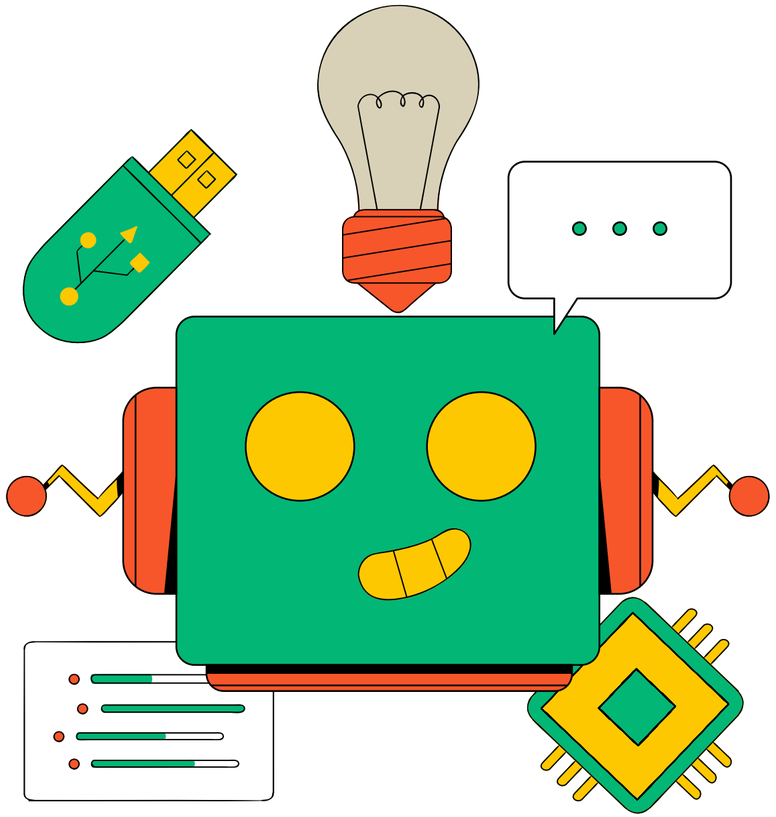
Data Overload

Security

Scalability

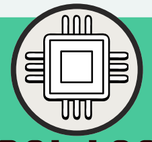
WHAT IS ARTIFICIAL INTELLIGENCE?





Artificial intelligence (AI) is the ability of a computer or robot to perform tasks commonly associated with intelligent beings.

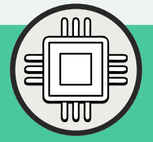
KEY AI TECHNOLOGIES



NATURAL LANGUAGE PROCESSING

Computers understanding human language.

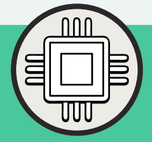
VIRTUAL ASSISTANTS



COMPUTER VISION

Computers analyzing images.

FACIAL RECOGNITION

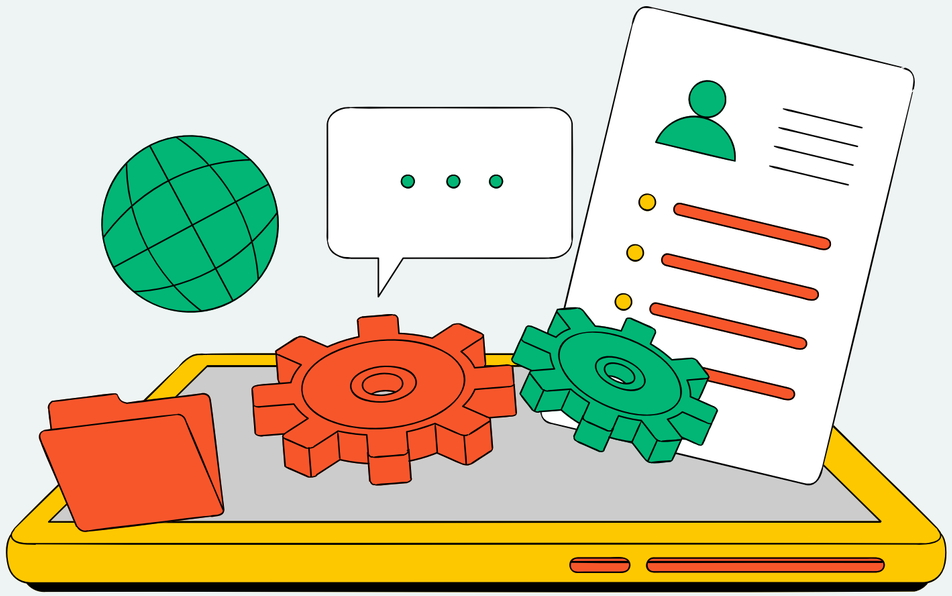


EXPERT SYSTEMS

AI mimicking expert decisions.

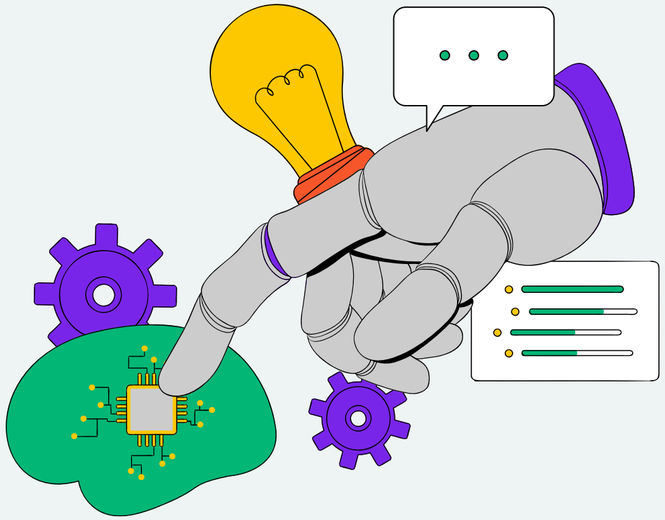
PERSONALIZED MARKETING

BENEFITS OF AI



- Automation of repetitive tasks
- Improved decision-making
- Enhanced customer experiences.

WHAT IS MACHINE LEARNING?



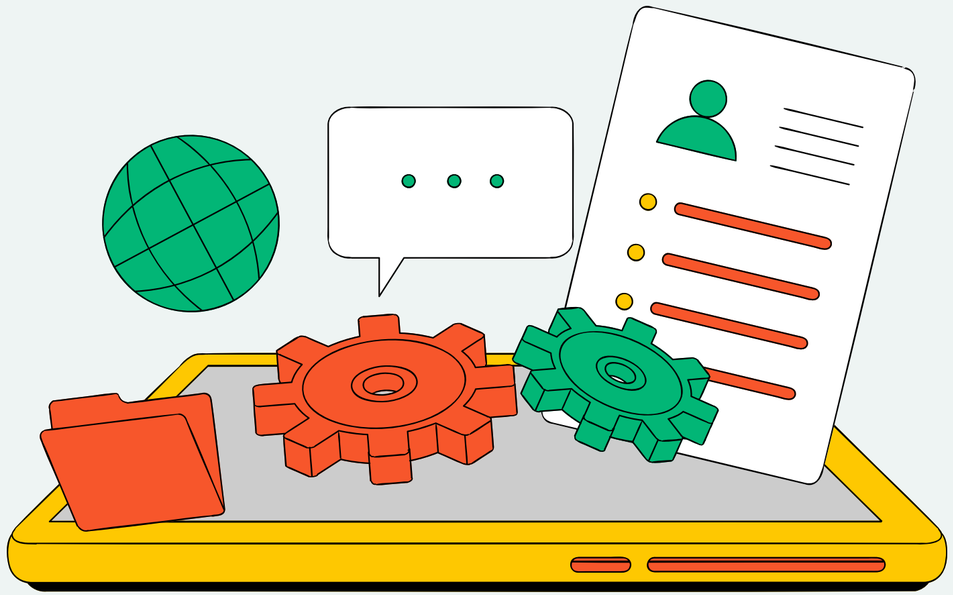
Machine learning (ML) is a field of study in artificial intelligence concerned with the development and study of statistical algorithms that can learn from data and generalize to unseen data and thus perform tasks without explicit instructions.

TYPES OF MACHINE LEARNING?

Supervised Learning

Unsupervised Learning

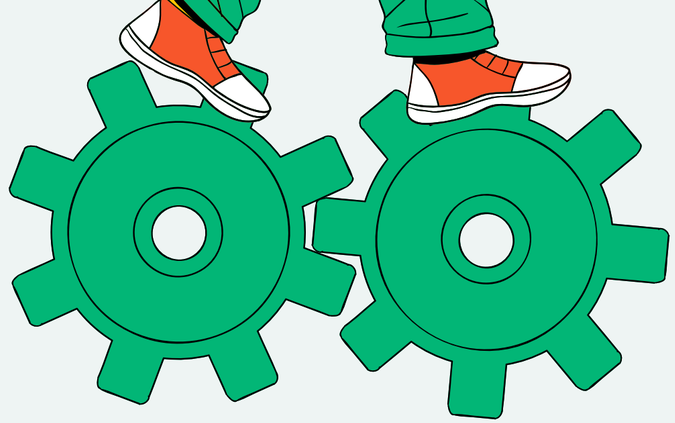
Reinforcement Learning



KEY USE CASES OF MACHINE LEARNING

- Predictive analytics
- Recommendation systems (Netflix, Amazon)
- Facial Recognition
- Personalized Healthcare

BENEFITS OF MACHINE LEARNING



IMPROVED ACCURACY AND PREDICTIONS

ADAPTABILITY

EFFICIENT DATA ANALYSIS

HOW THESE TECHNOLOGIES WORK TOGETHER

Integration of Blockchain in IoT for secure data sharing.

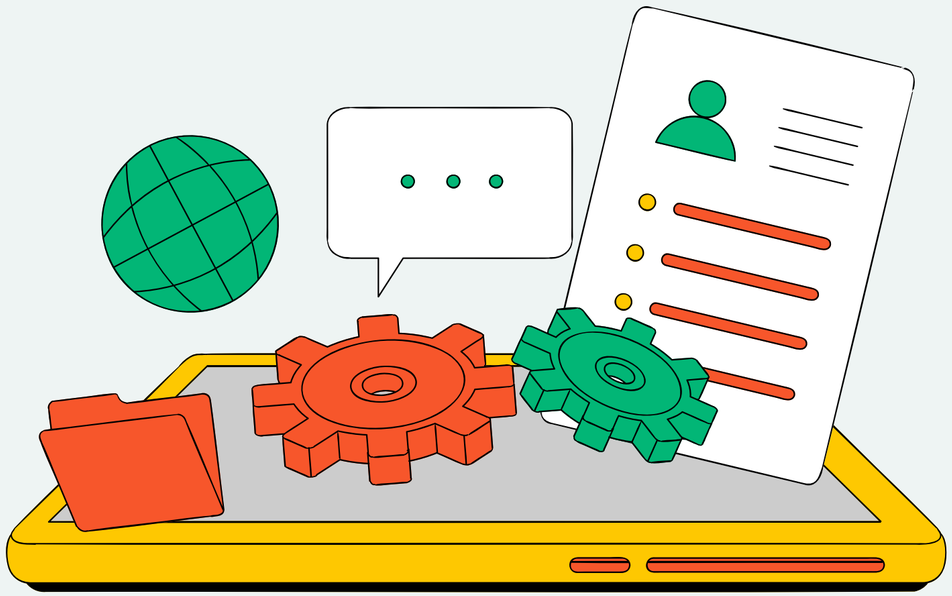
AI & ML improving IoT data processing and decision-making

Blockchain enhancing security and trust in AI models.

Example:

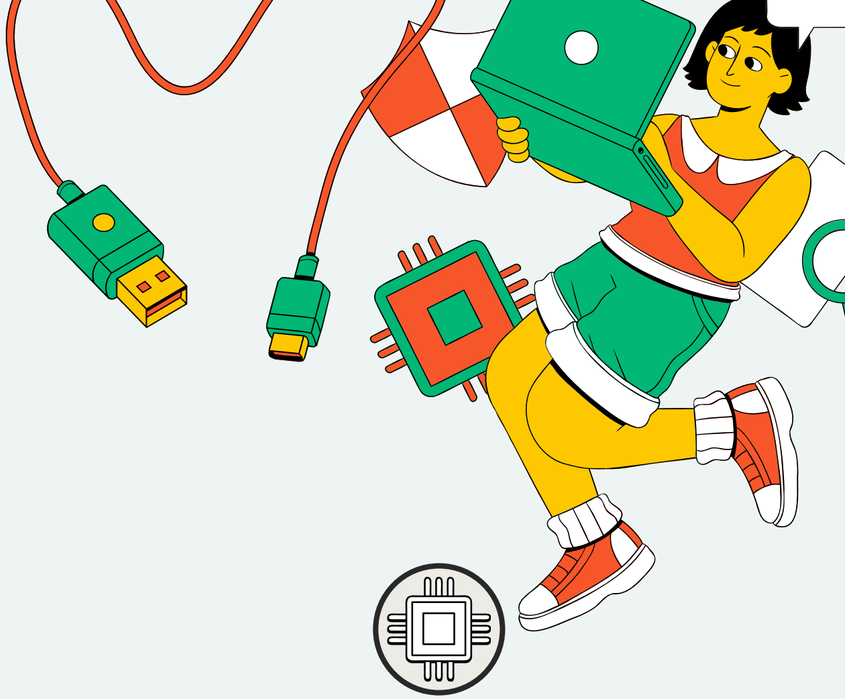
Smart contracts in IoT systems, predictive maintenance using AI for connected devices.

INDUSTRY IMPACT



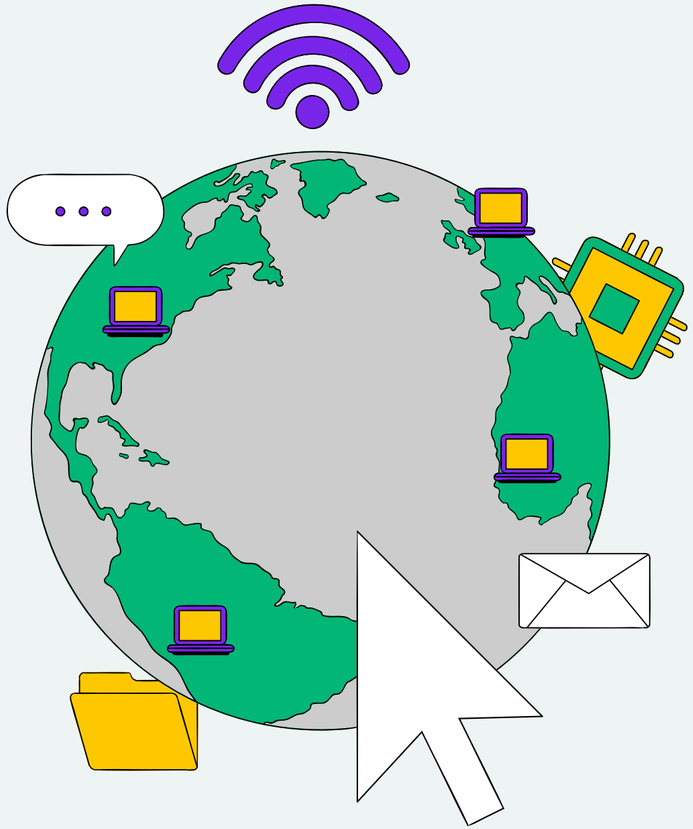
- Healthcare
- Finance
- Manufacturing
- Agriculture

CHALLENGES AND RISKS IN EMERGING PLATFORMS



- Data privacy concerns, especially with IoT and AI.
- Security vulnerabilities in Blockchain and IoT.
- Ethical issues in AI decision-making.
- Regulatory hurdles for new technologies.

FUTURE OF EMERGING PLATFORMS



- Growth of Decentralized Finance (DeFi) using blockchain.
- Expanding role of AI in decision automation and personalized services.
- IoT transforming smart cities and industries.
- Edge computing in IoT for real-time data processing.
- AI and ML's role in autonomous systems and robotics.