



# ARTIFICIAL INTELLIGENCE

Empowering Education  
Exploring the Impact

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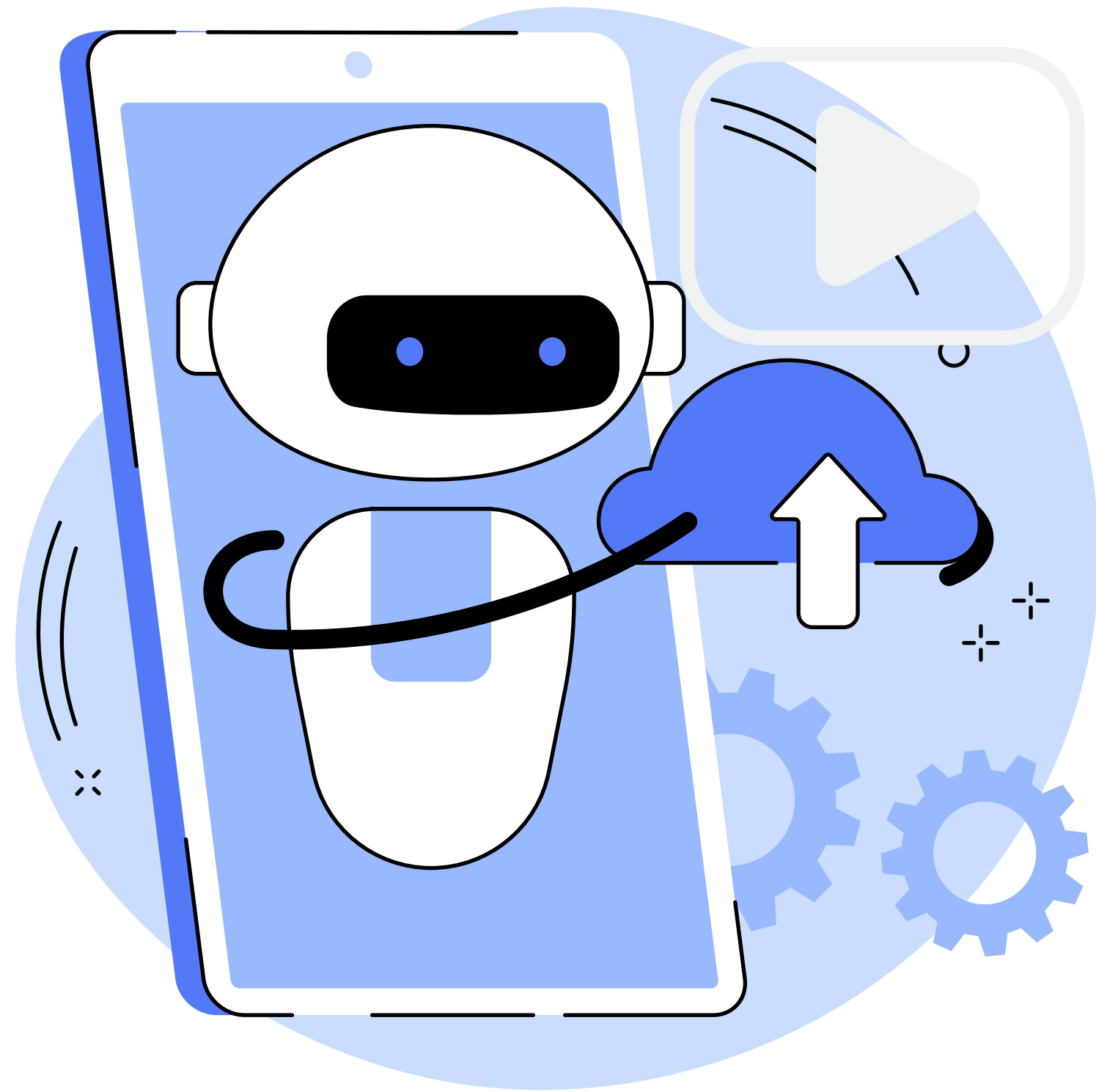
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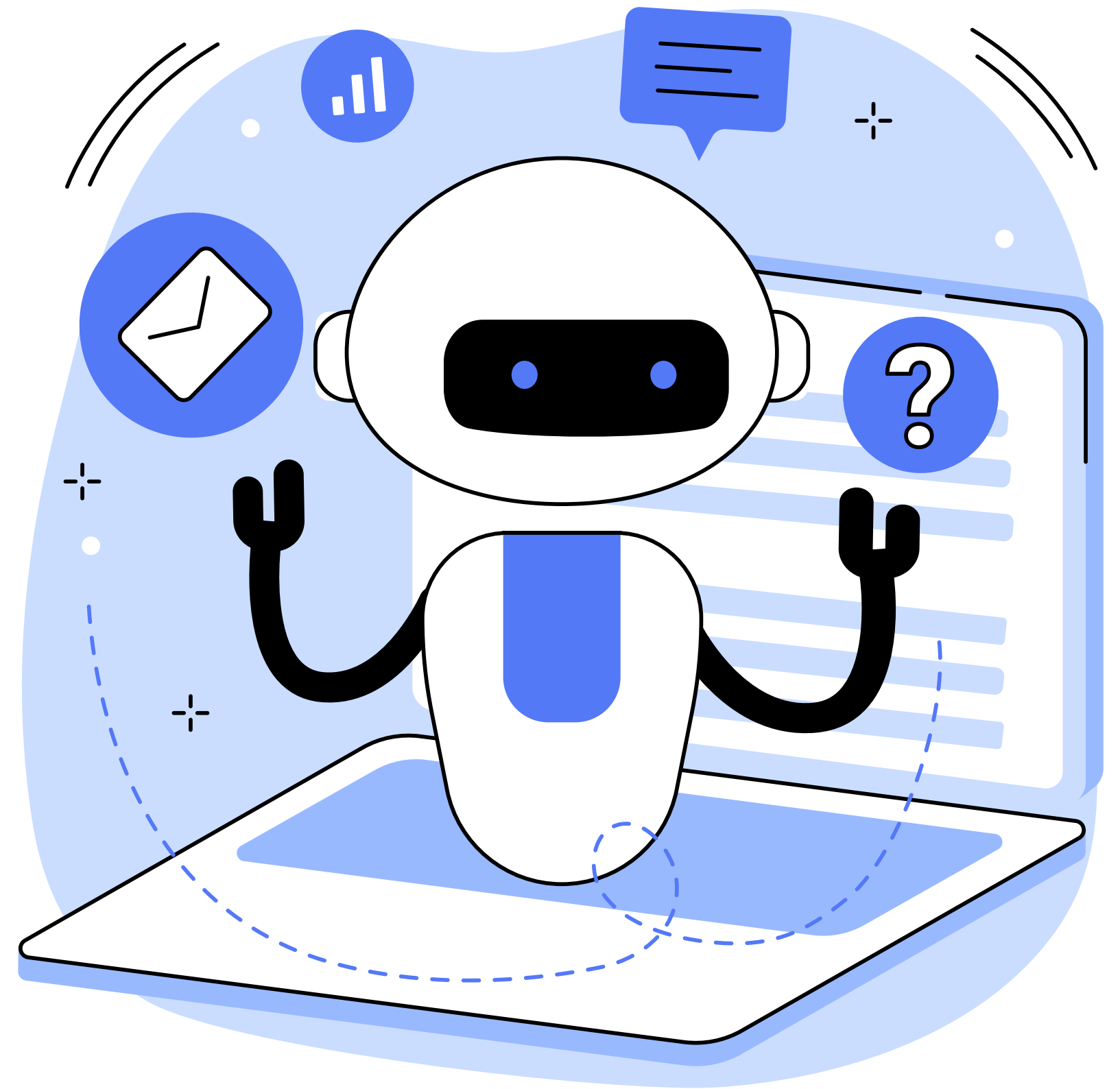


How will ai  
Change the  
World?

How do we  
prepare as  
educators?

# What is Artificial Intelligence in the context of education?

**Artificial Intelligence (AI):** simulation of human intelligence by machines programmed to perform tasks typically requiring human intelligence to enhance teaching and learning processes and other functions such as student services.



# Artificial Intelligence in higher Ed

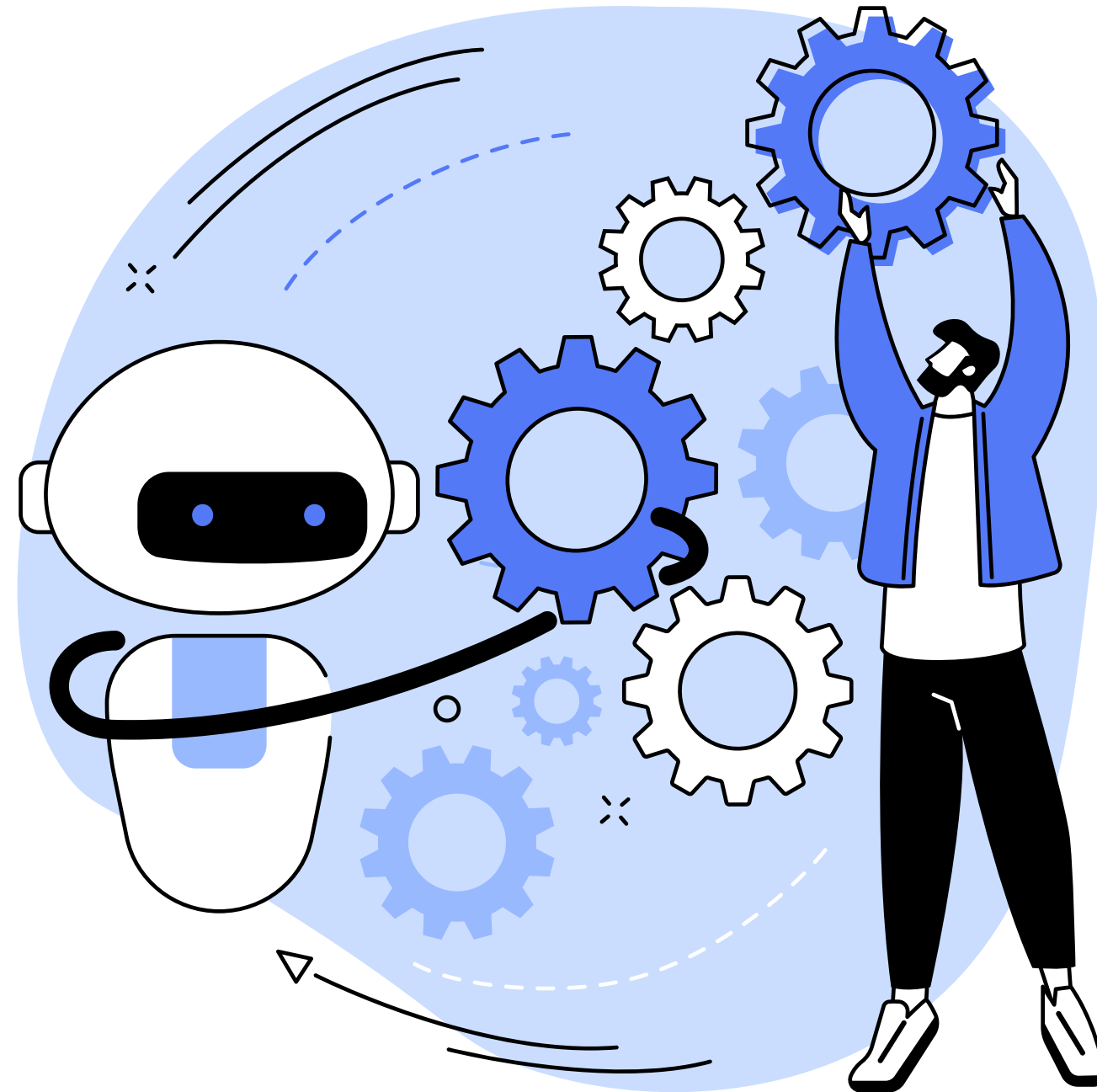
Tutoring

Virtual assistants

E-Payments

Automated Grading

Media streaming



Adaptive Learning

Personalized Instruction

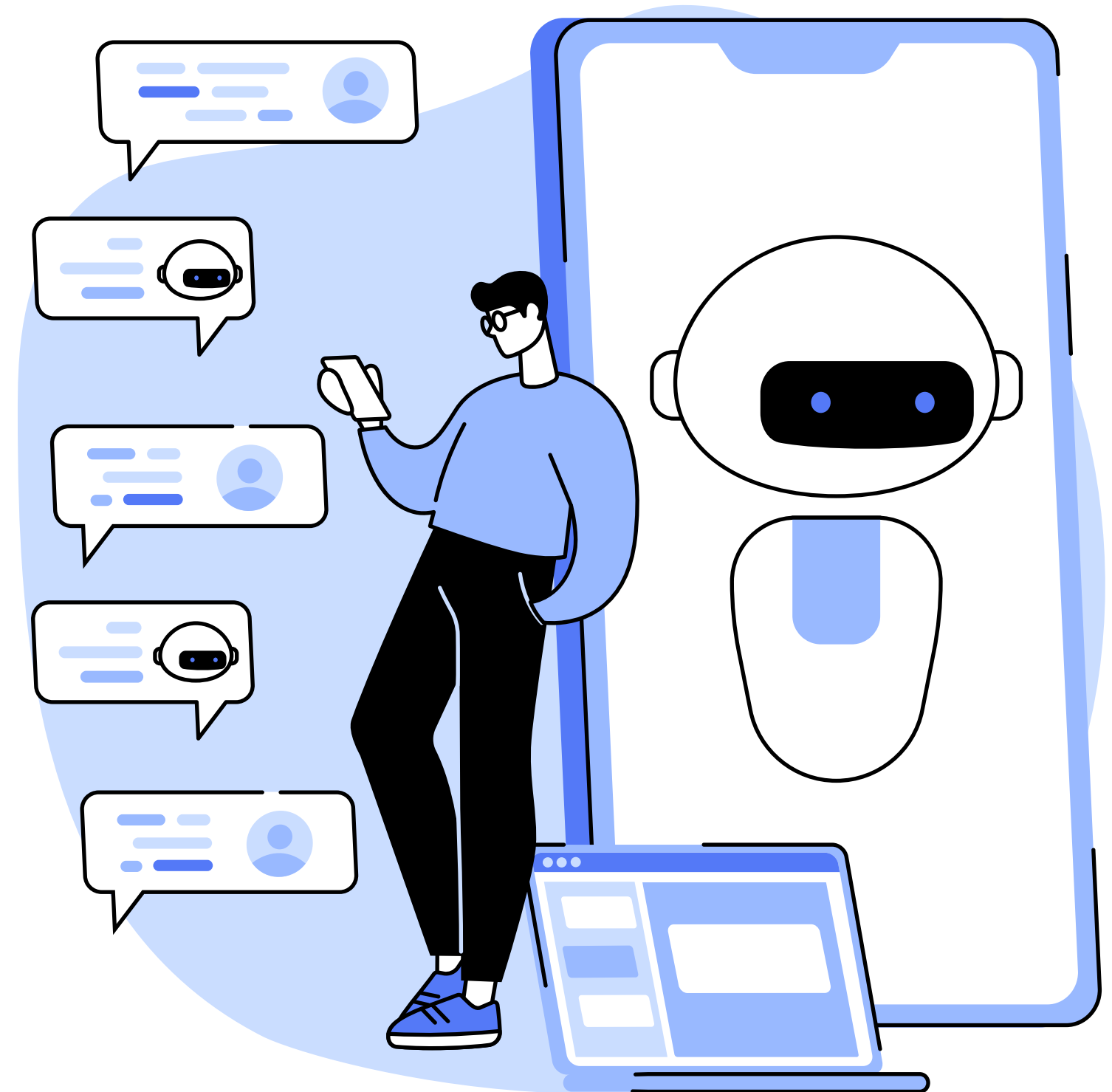
Facial recognition

Text editors

Plagiarism Detection

# Current Uses of Ai

- Automates administrative tasks
- Analyzes student data and provides tailored recommendations
- Provide immediate support and guidance through AI-powered virtual assistants



# beneficial uses of Artificial Intelligence in HE

## **Administrative Efficiencies**

Automating tasks,  
reducing workload,  
enhancing accuracy

## **Personalized Learning**

Cater to individual  
student needs and  
preferences, improving  
knowledge and  
retention

## **Data Analysis**

Identify trends, patterns  
and enable institutions  
to make data-driven  
decisions for curriculum  
development and  
student support

## **Immediate Assistance**

Fostering a more  
accessible, available,  
and supportive learning  
environment for  
students

# How can students learn alongside ai?

## Curriculum

Encourage cross-disciplinary collaboration to apply AI to various fields.

## Hackathon

Coding competitions focused on AI can provide hands-on experience.

## Resources

Provide AI development kits, datasets, and software platforms.

## Research

Collaboration with professors and industry partners on AI projects.

## Competitions

Kaggle, AI4ALL, or other data science competitions.

## Inclusivity

Environment that encourages experimentation and innovation in AI

## Feedback

Create channels for students to provide feedback on AI courses and resources.

## Currency

Update AI trends and technologies to ensure students are learning relevant skills



# How can faculty teach alongside ai?

- Develop a basic understanding of how AI works, its capabilities, and its limitations.
- Familiarize yourself with the types of AI systems commonly used in education.
- Choose AI tools and platforms that align with educational goals. These tools can include intelligent tutoring systems, chatbots for student support, data analytics platforms, and learning management systems with AI-driven features.
- Encourage students to use AI-powered educational apps that provide personalized recommendations and feedback.
- Include digital literacy skills in the curriculum to help students navigate the digital world responsibly.
- Maintain a strong human presence in your teaching approach.



# advantages

**Automation:** AI can automate repetitive and mundane tasks, increasing efficiency and productivity in various industries.

**Data Analysis:** AI can process and analyze vast amounts of data quickly and accurately, helping businesses and researchers gain valuable insights and make data-driven decisions.

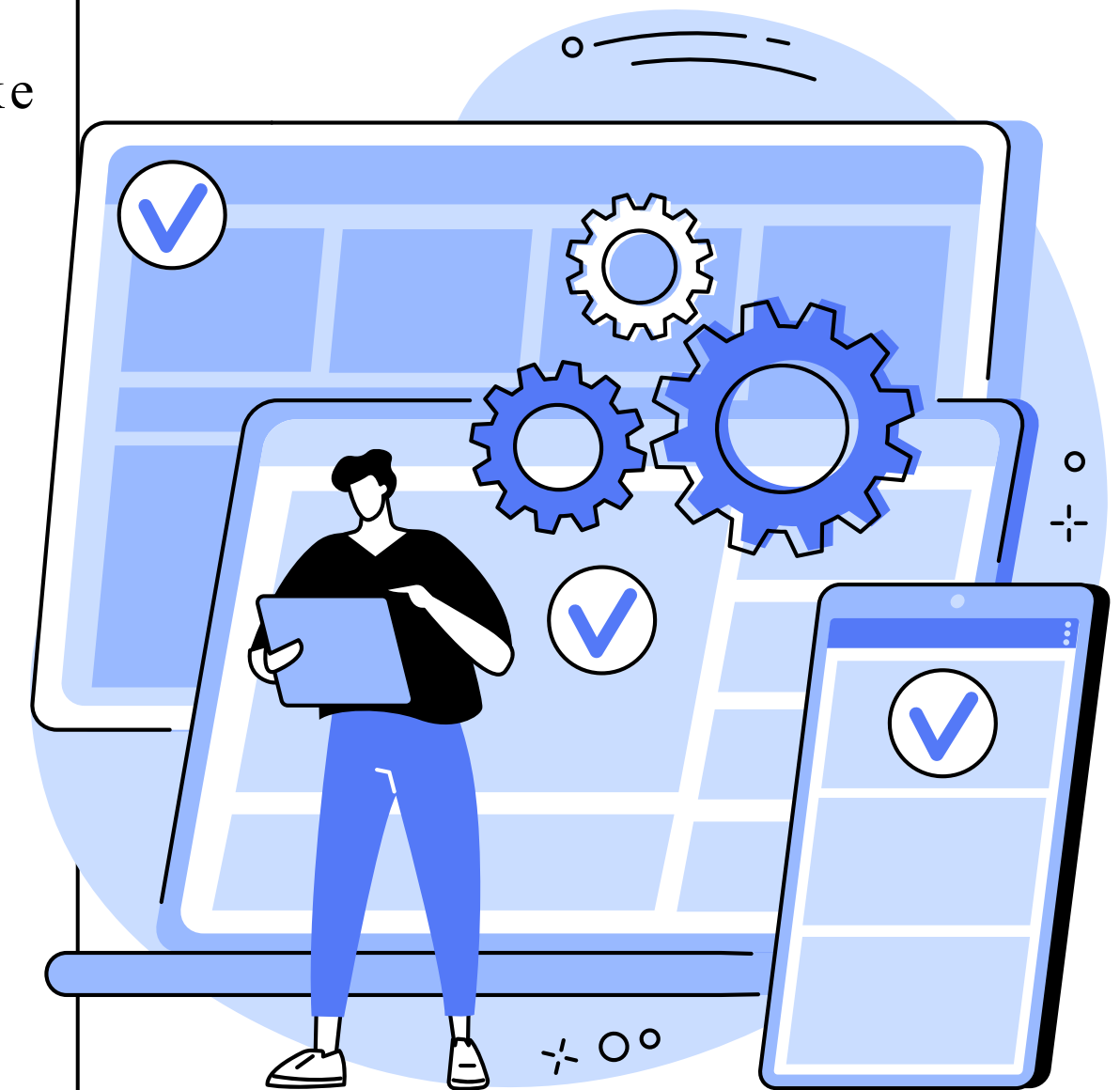
**24/7 Availability:** AI systems can work around the clock without fatigue, ensuring continuous operation and customer service.

**Personalization:** AI can tailor recommendations, content, and experiences to individual users, enhancing customer satisfaction and engagement.

**Safety:** AI can be used in applications like autonomous vehicles and medical diagnosis to enhance safety by reducing human errors.

**Scalability:** AI systems can scale to handle large volumes of data and tasks without a proportional increase in resources.

**Predictive Capabilities:** AI can predict future trends, behaviors, and outcomes based on historical data, enabling proactive decision-making.



# Disadvantages

**Job Displacement:** Automation driven by AI can lead to job displacement in certain industries, potentially causing economic and social disruptions.

**Bias and Fairness:** AI algorithms can inherit biases present in training data, leading to unfair or discriminatory outcomes.

**Privacy Concerns:** The collection and analysis of large amounts of personal data by AI systems raise privacy concerns.

**Complexity and Cost:** Developing and maintaining AI systems can be expensive and complex, requiring specialized skills and resources.

**Dependence on Technology:** Overreliance on AI can make society vulnerable to system failures, cybersecurity threats, and disruptions if AI systems malfunction or are compromised.

**Lack of Creativity and Intuition:** AI lacks the creativity, intuition, and common sense, limiting its ability to handle certain complex and novel tasks.

**Ethical Dilemmas:** AI can raise ethical dilemmas, such as the use of decision-making systems that impact human lives.

**Regulatory Challenges:** Regulating AI to ensure its responsible and ethical use is a complex challenge, with differing opinions on how to strike the right balance between innovation and safety.



## ETHICAL CONSIDERATIONS

- **Transparency/accountability**: who is responsible if AI makes a mistake?
- **Equity and Access**: potential to exacerbate existing disparities.
- **Informed Consent**: exactly how is data being used?
- **Security from Malicious Actors**: Hackers deploy AI
- **Long-term Impact**: The long-term impact of AI on education, including its effects on critical thinking, creativity, and the development of social and emotional skills.



**What's next  
for AI in the  
immediate  
future?**



**THANK YOU!**