

## ARTIFICIAL INTELLIGENCE RESOURCES

# Artificial Intelligence (AI) Resources

### AI and Higher Education

AI (Artificial Intelligence) has been increasingly playing a significant role in higher education, transforming various aspects of the learning and teaching process. Here are some key areas where AI is making an impact in higher education:

**Personalized Learning:** AI-powered systems can adapt to individual students' learning styles, paces, and needs, providing personalized learning experiences. This allows students to learn at their own pace and focus on areas where they need more support, leading to more effective and improved overall learning experience.

**Data Analysis and Predictive Analytics:** Institutions use AI to analyze vast amounts of data, such as student performance, enrollment trends, and retention rates. This data analysis helps identify students who might be at risk of dropping out, allowing for early intervention strategies.

**Virtual Classrooms and Online Learning:** AI supports the creation of dynamic online learning environments. AI-powered tutoring systems can provide personalized feedback and support. Natural Language Processing (NLP) allows for automated assessment of written assignments and even real-time feedback.

**Tutoring and Assistance:** Chatbots and virtual assistants can provide 24/7 support to students, answering questions, providing resources, and assisting with administrative tasks.

**Content Creation and Customization:** AI can generate educational content, such as quizzes, tests, and personalized learning materials, making education more accessible to a diverse range of students.

## Artificial Intelligence (AI) in Higher Ed

This AI in Higher Education LibGuide brings together a curated collection of research, articles, whitepapers, videos, webinars, and expert interviews that delve into the numerous ways AI is impacting higher education. The purpose of this resource is to d

 

- What is AI?
- Generative AI
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- Academic Integrity

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**About**

This AI in Higher Education LibGuide brings together a curated collection of research, articles, whitepapers, videos, webinars, and expert interviews that delve into the numerous ways AI is impacting higher education.

The purpose of this resource is to demonstrate the potential AI holds in revolutionizing the way we teach and learn. Whether you're a seasoned educator, a student, a tech enthusiast, or simply curious about the future of education, this LibGuide is here to empower you with knowledge, inspiration, and a nuanced understanding of AI's role in shaping the educational landscape of tomorrow.

**What is AI?**

"Artificial intelligence (AI) refers to a broad branch of computer science focused on creating systems capable of simulating the human capacity for learning and dynamic, real-time problem-solving based on firsthand observations, inferences, and interactions with their surroundings. Most functional AI in use as of the early 2020s is built on massive, human-generated data sets and algorithms, which are complex sets of instructions and calculations computer systems use to carry out procedures or complete tasks.

Despite the exciting promise of AI, many policymakers, industry stakeholders, ethics experts, and activist groups have advised caution regarding its continued development and expansion. Some experts worry that AI could displace millions of workers, resulting in massive job losses and increased economic inequality. Others cite its potential to create new forms of discrimination. Uncertainty surrounding the potential dangers of AI have prompted calls for legal frameworks and ethics codes for the industry. Lawmakers, researchers, and industry

