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## UNTAPPED POTENTIAL:

# LESSER-KNOWN AI USE CASES

## IN HIGHER EDUCATION

Artificial intelligence is transforming higher education by enhancing learning, optimizing administration, and personalizing the educational experience. From predictive analytics identifying at-risk students to adaptive learning platforms tailoring content, AI applications in higher education are numerous.

This infographic highlights three lesser-known AI applications across campuses worldwide, showcasing their impact on student outcomes and innovation in teaching and research.

### USE CASE

### KEY POINTS



#### AI for Accessibility and Inclusion

AI-powered tools that provide assistive technologies to support students with disabilities and enhance inclusive learning environments.

# 1

- Real-time **captioning and translation** for lectures
- **Text-to-speech** and **speech-to-text** capabilities for course materials
- AI-driven accommodations for various **learning disabilities**



#### AI-Enhanced Research Support

AI tools that aid in literature review, data processing, and pattern recognition for academic research.

# 2

- Accelerated **literature reviews** through AI-powered text analysis
- Advanced **data visualization** and pattern detection in complex datasets
- **Collaborative research** platforms with AI-driven insights



#### AI in Research Administration

AI systems streamlining the entire research grant lifecycle, from opportunity identification to post-award management.

# 3

- AI-assisted matching of PIs to **funding opportunities**
- **Automated grant management**, including expense categorization
- Optimized reporting and **improved compliance**
- **Time savings** in pre-award and post-award processes

## FUTURE CAMPUS IMPACTS

The Future Campus™ Framework is Tambellini's innovative tool for generating strategic-level conversations and action for appropriate investments and divestments across the four key pillars of people, process, data, and technology. The Framework is scored across ten key higher education workspaces.

AI tools can affect the following Future Campus workspaces:

#### Outcomes

AI tools like predictive analytics and personalized learning enhance student success through tailored support and timely interventions.

#### Recruit

Chatbots optimize the enrollment process, providing quick, 24/7 support to attract and guide prospective students.

#### Retain

Predictive analytics and intelligent tutoring systems help identify and support at-risk students, boosting retention.

#### Governance

AI optimizes administrative processes and decision-making, improving compliance and operational efficiency.

#### Revenue

AI-driven efficiencies reduce costs and enhance resource management, positively impacting institutional revenue.

#### Innovate

AI fosters innovation in accessibility, research, and education, driving continuous improvement and inclusivity.