

Putting AI to Work in Higher Education

12 Ways Institutions Are Integrating AI Across Campus

Many colleges and universities are still determining where AI can create meaningful institutional value beyond early pilots. This infographic highlights 12 applications that can help leaders prioritize AI efforts across student support, operations, academics, and administration.

ACADEMIC AND CAREER SUPPORT FOR STUDENTS

1 Personalized Tutor for Every Student

PROMISE

AI tutors provide on-demand tutoring tailored to each student's real-time needs. Learners can explore course material via interactive Q&A sessions with the AI, which adjusts to their individual learning preferences and knowledge levels.

EXPECTED IMPACT

Increased subject mastery, reduced student stress, more equitable access to 1:1 academic support for students

2 Adaptive Academic Pathways

PROMISE

AI-driven academic advisors tailor academic pathways for students based on real-time performance and evolving student interests, even providing tailored nudges and automatic scheduling of classes and other on-campus resources.

EXPECTED IMPACT

Higher completion rates, fewer course dropouts, more effective use of academic resources

3 AI-Powered Career Coaches

PROMISE

AI coaches identify right-fit jobs based on comprehensive student profiles, including academic qualifications, skills, preferences, professional experiences, and even personality and work style. AI can then align profiles with appropriate job openings, tailor resumes and cover letters, and fill out applications.

EXPECTED IMPACT

Higher job placement rates, data-driven career planning, improved alumni relations

ENROLLMENT SUPPORT FOR PROSPECTIVE STUDENTS

4 24/7 Enrollment Concierge

PROMISE

Conversational AI bot offers around-the-clock support to applicants, providing tailored responses and nudging them about financial aid, deadlines, housing, and more.

EXPECTED IMPACT

Smoother applicant journey, increased yield, and reduced administrative workload

5 Holistic Financial Aid Support

PROMISE

AI models better align financial aid resources with student need using holistic review and streamlined fund distribution. Conversational AI bots then provide personalized support throughout the student lifecycle (e.g., FAFSA¹ form or SAP² appeal reminders and completion assistance).

EXPECTED IMPACT

Greater financial equity, faster award distribution, reduced administrative costs

OPERATIONAL EFFICIENCY GAINS

10 Expanded AI Service Desk Capabilities for IT and Facilities

PROMISE

Conversational AI bots with dynamic Q&A capabilities address customer concerns and independently manage (and even close out) sophisticated help desk inquiries.

EXPECTED IMPACT

Reduced staff workload, streamlined issue resolution, improved customer satisfaction

11 Holistic Application Review in Admissions

PROMISE

AI expedites the summary and evaluation of both qualitative and quantitative application materials, offering a streamlined approach. This can be especially valuable for test-optional admissions.

EXPECTED IMPACT

Reduced administrative burden, more comprehensive reviews, faster decision-making

12 Instantaneous Access to Institutional Knowledge for Back-Office Functions (e.g., Finance, Legal, HR)

PROMISE

Conversational AI bots trained on institutional knowledge—from internal policies to legal documents to financial statements—accelerate staff access to information and expedite knowledge-intensive tasks such as due diligence and contract analysis.

EXPECTED IMPACT

Increased efficiency, reduced time spent on data searches, better decision-making

PERSONALIZED CONTENT GENERATION FOR ENROLLMENT MARKETING + DONOR RELATIONS

6 Hyper-Personalized Outreach for Prospective Students

PROMISE

AI produces personalized content for individual students, tailored to the distinct styles and tones of various senders (such as renowned professors, deans, or presidents). This content can then be automatically distributed across multiple channels, including social media, emails, and text messages.

EXPECTED IMPACT

Stronger engagement, higher application conversion rates, better brand perception

7 Data-Driven, Customized Donor Outreach

PROMISE

AI tools generate customized and ongoing donor journeys by continuously identifying and adapting outreach based on donor behaviors (e.g., response) and interests.

EXPECTED IMPACT

Higher donor retention, increased fundraising yield, improved donor satisfaction

FACULTY EFFICIENCY GAINS IN TEACHING AND RESEARCH

8 Assisted Course-building and Automated Grading

PROMISE

AI tools assist faculty brainstorming and develop course content such as syllabi and lesson plans. They also automate components of the grading process across assessment types, from written responses to videography.

EXPECTED IMPACT

Reduced faculty workload, improved course quality, faster grading turnaround

9 Streamlined Research Administration

PROMISE

AI tools improve grant identification based on faculty profiles (e.g., research history, qualifications, desires) and partially automate components of grant application (e.g., biosketches, workplans).

EXPECTED IMPACT

Reduced administrative burden, better-fit funding opportunities, increased grant application volume

1. Free Application for Federal Student Aid
2. Satisfactory Academic Progress