



Your Host for Today's Session



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Education's Trusted Partner to Help Schools and Students Thrive



INSTITUTIONAL STRATEGY

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Executive guidance rooted in research to support your strategic priorities

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Tailored partnerships powered by a recruitment ecosystem with unrivaled reach to enroll your future classes STUDENT SUCCESS

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Technology trusted by 850 schools to retain, graduate, and empower more students DIVERSITY, EQUITY, AND INCLUSION

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We partner with 2,500+ institutions to accelerate progress and enable lasting change.

95%+ of our partners return to us year after year because of results we achieve, together.



HE Leaders Have Vastly Different Takes on AI











Stubborn **Skeptic**

Fearful Ignorant **Curious Examiner** ΑI Champion

"AI is just the latest overhyped piece of technology."

"I don't know anything about AI, but I am very worried about it." "I know AI is worth paying attention to, but I don't know where to start."

"AI will transform every part of higher education."

ChatGPT's User Base Grew Much Faster Than Other Tech Breakthroughs

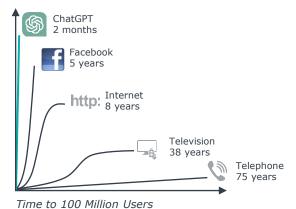
What is Generative AI?

Latest development in AI that refers to deep-learning models that can **generate high**quality text, images, and other content based on the data they were trained on.1



ChatGPT's Meteoric Adoption Rate Sets Historical Precedent

Time to 100M Users By Technology



Generative AI Reaches Inflection Point **Due to Unique Developments**

Accessible and User-Friendly

Web-based access allows anyone to use AI via everyday devices like PCs and phones. Users can use simple text prompts to deliver commands and process outputs.

Trained on Vast Knowledge Base

Models are trained on large sets of data (e.g., books, web texts, and articles from billions of Internet webpages)

Generates New, Human-like Content

Tools can generate new, creative content across domains (e.g., text, images, software) that is often indistinguishable from human outputs











Dispelling Three Myths About AI

Myth: AI is All Hype

Reality: AI is Quickly Becoming a Staple in **Everyday Life**



Mainstay Vendors Integrate Generative AI Into Key Offerings

- · Google launches generative AIpowered search experience
- Microsoft releases Copilot throughout Office 365 Suite
- Adobe launches Firefly, generative AI for creators. across products

More Vendors Plan to **Launch AI Offerings**











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Myth: AI is Avoidable

Reality: Students, Staff (Even Presidents) Already **Using AI tools**



89%

Of students admitted to using ChatGPT in their coursework

67%

Of higher education staff reported using generative AI for their work in the 2022-23 academic year

Wells College president Jonathan Gibralter is among several higher ed leaders who used ChatGPT to craft parts of their graduation speech

Myth: AI is Too Risky for **Universities to Adopt**

Reality: Licensed AI Tools Far Less Risky than Public **Tools**



- Institutions can negotiate security agreements with vendors
- · Data not used to train public models

AI Risk Frameworks Follow Tried-and-True Templates

- National Institute of Standards and Technology (NIST) released an AI Risk Management Framework in 2023, following template of cybersecurity framework
- Focus is similarly on educating users on safe data practices

Source: C Westfall, "Educators Battle Plagiarism As 89% Of Students Admit To Using OpenAI's ChatGPT For Homework", Forbes, January 28, 2023; J Moody, The ChatGPT Commencement Address, Inside Higher Ed, June 29, 2023; M McCormack, "EDUCAUSE QuickPoll Results: Adopting and Adapting to Generative AI in Higher Ed Tech", EDUCAUSE, April 17, 2023; EAB interviews and analysis.

All Institutions Must Prepare Faculty to Incorporate AI Into Pedagogy

- Release Institutional Statement Embracing
 AI
 - University of Southern California's Provost and Academic Senate released a joint statement urging faculty to encourage students to explore generative AI
- Offer Hands-On AI Literacy Training Programs
 - Auburn University developed a Teaching with AI online Canvas course, which ~450 faculty have already completed
- Host Faculty AI Teaching and Learning Workshops
 - The University of Mississippi launched a paid (\$1,000 stipend) two-day AI Summer Institute for Teachers of Writing
- Provide Seed Funding For Classroom Experimentation
 - Stanford University offers faculty seed grants up to \$100,000 to explore how AI can be applied in teaching and learning

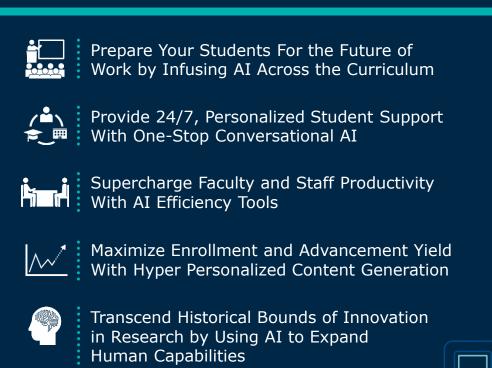


Auburn's free, self-paced, and interactive <u>Teaching with AI</u> course consists of eight modules, which take ~10 to 25 hours to complete.

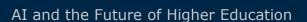
Key Course Elements

- Provides faculty a structured approach to experimenting with AI tools and rethinking classroom experiences
- Suitable for AI beginners to experts
- Offers faculty a forum to discuss topics related to AI in the classroom
- Dynamically updated based on developing best practices









TRANSFORMATIVE OPPORTUNITY



Prepare Your Students for the Future of Work by Infusing AI Across the Curriculum

AI Disruptions Across Industries

Before Generative AI



TV & Movie Writing:

Studios rely on writers for source material and actors for performances



After Generative AI

Writers & Actors on Strike
"Generative AI writes scripts and

creates backdrops, replacing writers and background actors"



Legal Services:

Only basic document review can be automated or outsourced



Rise of Robot Lawyers

"Research finds nearly half of legal work could be automated"



Graphic Design:

Designers create projects based on preset visuals, fonts, and layouts



Designs on Steroids

"Microsoft Designer tool generates complex designs in an instant based on text descriptions"



Software Engineering:

Engineers write code to implement software functionality using various programming languages



2X Faster with AI

"McKinsey study show software developers complete coding tasks up to twice as fast with generative AI"

Demand For AI and Machine Learning Roles Surge...



53%

Increase in demand for AI/machine learning engineers since 2020



Projected growth of AI/machine learning jobs from 2023-2027

...But Need For AI Skills Extend Beyond **Tech Roles**

2023 Job Descriptions on Indeed.com

Graphic Designer Oualifications & Skills

indeed

Familiarity with AI and ChatGPT technology, utilizing it to enhance multimedia projects

Protein Sciences Research Scientist

Qualifications & Skills

Experience utilizing artificial intelligence protein design, SAR, or related biological applications

Content Writer, Editor, and Researcher Qualifications & Skills

Proficiency in prompting and navigating AI tools such as ChatGPT

UF Infuses AI Education Into All Disciplines

Preparing Students for the Future Requires AI Integration into Coursework

Key Elements of the University of Florida's AI Initiative



Top-Down Approach to AI

UF President and Provost strongly encouraged and incentivized incorporation of AI across all 16 colleges



AI-Specific Faculty Hired

UF hired 100 new faculty with AI backgrounds or experience across disciplines, with each college receiving at least one new hire



AI Courses Across All Disciplines

230 AI courses offered at undergraduate, graduate, and professional levels, and range from introductory to major-specific



AI Pathways Career Coach

Career center staff educate students on the use of AI in the job recruitment process



Course Offerings



AI in Agriculture and Life Sciences



Business Applications of Artificial Intelligence



AI in Healthcare and Public Health

Research Applications



AI System Detects Bruised Strawberries Before Market

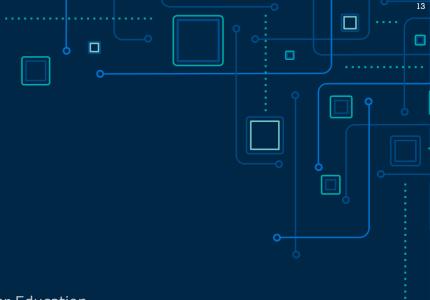


Building Equitable Workplaces with AI Technologies



AI Platform Predicts Surgical Complications





AI and the Future of Higher Education

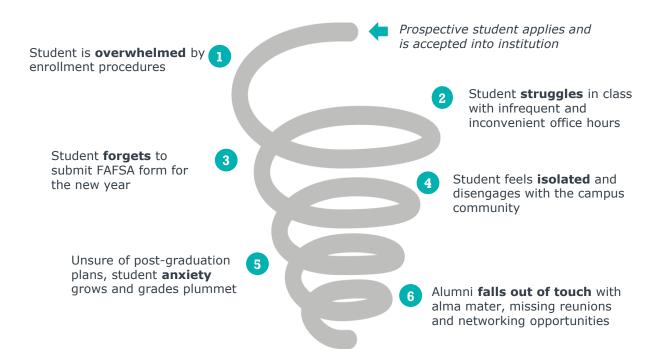
TRANSFORMATIVE OPPORTUNITY



Provide 24/7, Personalized Student Support with One-Step Conversational AI

2

Service Pitfalls Throughout the Student Lifecycle



How One-Stop Conversational AI Preempts Common Service Pitfalls

Enrollment Alumni Engages potential donors Provides concierge-like service to based on personal motivations prospective students, answering and past behavior their questions with dynamic O&A Career **Financial Aid** Grants individualized Recommends best-fit support while completing professional opportunities yearly FAFSA submissions based on skills, interests, and qualifications Social **Academic** Recognizing disengagement, Supplies 24/7, personalized coursesuggests campus activities and specific tutoring and support clubs based on student interests

A New Era of Personalized Learning

Khanmigo, AI Tutor and Assistant

Khan Academy trained Khanmigo on its platform's data to assist students on tasks from writing papers to coding software

Jill Watson, AI Teaching Assistant

Georgia Tech integrated generative AI into its existing Jill model, reducing training time from 100 hours to 10 hours per class





AI and the Future of Higher Education

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Supercharge Faculty and Staff Productivity with AI Efficiency Tools 3

Generative AI Projected to Augment Majority of Roles...



2/3

Of current jobs are exposed to some degree of AI automation

...Already Leading to Workforce Displacement

1 in 4



Companies have already replaced employees with ChatGPT

Private Sector Augmenting their Staff with Conversational AI Bots

Morgan Stanley

- Morgan Stanley trained GPT-4 on 100,000 of its bank and research documents for its financial advisors (FAs)
- FAs can now ask the AI bot anything from general business queries to investment strategy recommendations



- PwC developed a conversational AI bot that expedites tasks from contract analysis and due diligence to legal and consulting services
- The AI bot is now in use by 4,000+ PwC lawyers in 100+ countries

Teaching & Learning



Research



Course Planning

Louisiana State University's Provost was able to generate a syllabus for an interdisciplinary AI course in one hour as opposed to days using ChatGPT.



Grading

A professor at DuPont University¹ uses an AI grading tool to evaluate written content, **reducing the time she spends grading** and instead focuses more on teaching and research.



Brainstorming

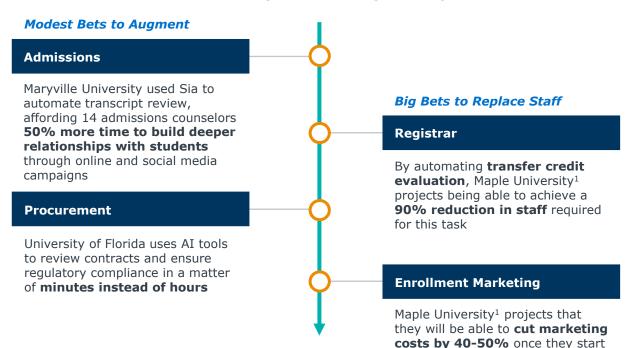
A postdoc at the University of South Denmark used ChatGPT to create an outline for a journal article, which he estimates **saved 20 hours of work**.



Grant Writing

Students at the University of Oregon developed <u>ChangeFinder</u>, a tool using ChatGPT technology, that **streamlines the grant writing process** by providing suggestions to user's responses to grant questions.

AI Staff Productivity Boons Throughout Departments



campaigns

using AI to help in their marketing





AI and the Future of Higher Education

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Maximize Enrollment and Advancement Yield with Hyper Personalized Content Generation 4

Use AI to Hyper Personalize and Scale Outreach

Two Ways USC's Annual Giving Team Used AI-Generated Messaging

Improved Yield and Time Savings

High-Volume Giving Day Outreach

- Used ChatGPT to generate messages for high-volume annual Giving Day campaign
- Customized messages based on past donor behavior and written in the voice and tone of the giving team

Fiscal Year-End Appeals in the Dean's Voice

- Composed 392 appeals written in the voice of Deans from 20+ departments
- Team provided ChatGPT examples of previous Dean's appeals, fund descriptions, and donor history
- · Nearly zero edits needed

-



Highest number of Giving Day donors in 6 years

2K

First-time donors

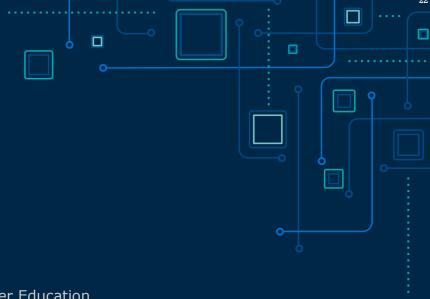
392

Letters generated in a few hours

+2

Weeks of staff time saved





AI and the Future of Higher Education

TRANSFORMATIVE OPPORTUNITY



Transcend the Historical Bounds of Innovation in Research by Using AI to Expand Human Capabilities



AI Redefines What is Possible in Research...

Protein Design



AlphaFold, a DeepMind AI system, can accurately predict 3D models of protein structures – only a fraction of which have been studied because it is an expensive and time-consuming process.

Synthetic Clinical Data





NVIDIA and **University of Florida Health**'s neural network, SynGatorTron, generates synthetic clinical data that mimics real populations without the risk or privacy concerns of human data

Speech Pathology



National AI Institute for Exceptional Education is developing an AI Screener to monitor students' speech and language processing abilities by observing classroom interactions (e.g., speech, facial expressions)

...As Governments Commit Unprecedented Levels of Funding

U.S.A

 Invests \$140 million to establish seven new national AI research institutes after spending \$3.3 billion on AI research in 2022

Canada

 Awards nearly \$1.4 billion for AI and robotics research in largest-ever federal university grant

U.K.

 Announces £54 million investment to develop trustworthy AI research

Germany

 Plans to double public funding for AI research to nearly €1 billion over next couple of years

Source: A Costa, "Unlimited Data, Unlimited Possibilities: UF Health and NVIDIA Build World's Largest Clinical Language Generator", NVIDIA, March 22, 2022; C Nealon, "UB awarded \$20 million to establish national AI institute", University of Buffalo, January 10, 2023; C Smith, "£54 million boost to develop secure and trustworthy AI research", Department for Science, Innovation and Technology, June 14, 2023; DeepMind, "AlphaFold", Google, 2023; N O'Neill", 'Largest-ever federal university grant awarded for AI and robotics research, as part of \$1.4B fund", CTV News, April 28, 2023; T Escritt & D Syamnath, "Germany plans to double AI funding in race with China, U.S.", Reuters, August 23, 2023; University of Florida, Gainesville, FL; EAB Interviews and analysis.

Top-Of-Mind Questions for University Leaders Across Strategic Priorities



President

- · Where do we need to invest and how soon?
- Where are the risks I need to be aware of and mitigate?
- Who's moving the fastest, who are the leaders in the AI space?
- How can AI augment our ability to reach best-fit students, world-class faculty, and research dollars?
- What impact will AI have on our campus culture?
 How can we preserve our high-touch culture?



Provosts

- How can AI help free up faculty and staff time so they can focus more on supporting students, especially considering post-pandemic mental health concerns?
- How do we adapt our curriculum and prepare our faculty across disciplines?
- How can we deploy AI to help us proactively manage our program portfolio and effectively intervene to support at-risk students?



Chief Business Officers

- What AI solutions have the most transformative potential to drive operational efficiency?
- How should we be thinking about investments in generative AI capabilities?
- How can we use AI to improve persistence and predictability of net tuition revenue?
- Can we use AI to do the work of hard-to-fill, expensive roles?



Chief Information Officers

- How should we integrate AI into operations: leverage vendor products with AI features, use OpenAI API, or self-host open-source models?
- How will AI impact our cybersecurity and privacy risk environment?
- What foundational elements do we need (e.g., staffing, data, storage) to support AI innovation?

Top-Of-Mind Questions for University Leaders Across Strategic Priorities



Enrollment Teams

- How will AI disrupt what students and prospects expect from us? And what's the timeline for these disruptions?
- What is the risk of not embracing AI from a competitive lens?
- What does responsible use of AI in enrollment functions (e.g., marketing, admissions, financial aid) look like?



Student Success Teams

- How will AI impact the classroom experience and student employability?
- Where should we invest/what AI solutions have the most transformative potential to help our students?
- In what ways can AI help us more proactively and effectively intervene to support at-risk students?
- How do we prepare students to employ AI tools while contending with its hallucinations and biases?



Data Management Teams

- Can AI improve the management, integration, and utilization of vast amounts of educational data?
- How will the emergence of AI require us to rethink fundamental data management models (e.g., governance structures, storage)?
- How can AI help us transform raw data into actionable insights to support decision-making at all levels?



Risk Management Teams

- What will AI's regulatory landscape look like in the coming months/years? How do we prepare?
- What steps can we take to mitigate the cybersecurity and privacy risks associated with AI?
- How do we adequately vet vendors incorporating AI to maintain our security posture?
- Can we be held liable for any inaccurate/harmful responses AI tools might produce?

Meet Your Panel

Moderator



Afia Tasneem

Senior Director, Research Discovery & Design

Panelists



Brian Markham Chief Information Security Officer



Abdullah
Vice President
of Product,
Enrollment



Mannix Vice President of Engineering, Student Success

Brendan



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Waldo

Managing Director

Data and Analytics

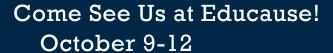
Technologies

Lars

Want to Speak to an EAB Expert? —— Answer this poll to request a conversation

I'd most like to discuss AI in the context of (choose one):

- Enrollment
- Student Success
- Cybersecurity
- Data & Analytics
- University Strategy



Keep discussing AI at our session on Thursday



W184D (Level 1) at 9:45am

Stop by the booth to **speak to an expert**



Booth 919

