ChatGPT & AI: Prepping for Fall

Stan Ahalt: Dean – School of Data Science & Society
Mark McNeilly – Kenan-Flagler Business School
University of North Carolina-Chapel Hill
A few questions...

• How often do you personally use ChatGPT?
  A. Use it daily
  B. Use it 2-3 times a week
  C. Have only used it a few times
  D. Have never used it

• Which best describes your feelings about ChatGPT and the future of Higher Education
  A. Very Excited
  B. Mildly interested
  C. It won’t matter much
  D. Somewhat scared
  E. Terrified

Executive Summary

• Generative AI (e.g. ChatGPT) is a major AI milestone that has far reaching applications and implications.

• Generative AI can more directly engage with humans and more fully perform human functions. “Democratization of AI”

• These not only affect Higher Ed but also humanity’s near and far future, both positively and negatively.

• As a university, we need to holistically understand the applications & implications of ever more powerful AI.
Agenda

- Introduction to Generative AI
- What you can do with Generative AI
- Upside and Downside of Generative AI
- Generative AI and Higher Ed
- What you need to do now
- Q&A

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**Alarmed by A.I. Chatbots, Universities Start Revamping How They Teach**

Bill Gates says A.I. like ChatGPT is ‘every bit as important as the PC, as the internet’

Microsoft is bringing ChatGPT technology to Word, Excel and Outlook

**How ChatGPT Kicked Off an A.I. Arms Race**

ChatGPT is the hottest new job skill that can help you get hired, according to HR experts

**What Will Working with AI Really Require?**

A.I. Poses ‘Risk of Extinction,’ Industry Leaders Warn
Is ChatGPT’s advent signal a “week where decades happen?”

“There are decades where nothing happens; and there are weeks where decades happen.”

Vladimir Ilyich Lenin

ChatGPT sets record for fastest-growing user base - analyst note 100M Users in 2 months.

ChatGPT

Examples

“Explain quantum computing in simple terms” →

“Got any creative ideas for a 10 year old’s birthday?” →

“How do I make an HTTP request in Javascript?” →

Capabilities

Remembers what user said earlier in the conversation

Allows user to provide follow-up corrections

Trained to decline inappropriate requests

Limitations

May occasionally generate incorrect information

May occasionally produce harmful instructions or biased content

Limited knowledge of world and events after 2021
How Does ChatGPT* Work?

- Trained on how people speak and write based on a “Large Language Model” and “Deep Learning” of “Neural Networks”
- Predicts speech: what words come next.
- “Autocomplete on steroids.”
- “Got up on the wrong side of the _____”
- “Chat Generative Pre-trained Transformer”
- ChatGPT’s LLM is one of many LLMs. Other Firms & Open Source

ChatGPT “Hallucinates”

“Hallucination” is a term used when a user is misled because
a) The answer provided by the AI system is incorrect, yet
b) The system says it with great confidence.

One estimate is that ChatGPT hallucinates 15%-20% of the time.

https://www.linkedin.com/posts/prithvirajdamodaran_top5-chatgpt-hallucinations-activity-7004778017017192450-8zMP/
GENERATIVE AI
AI Tools that generate output from human prompts

What ChatGPT Does Well

- Answer questions (beware of biases and hallucinations)
- Write
- Code
- Summarize
- Explains concepts
- Brainstorm
- Translate languages
- Discuss relationships between domains
Generative AI Provides a significant boost in three areas.

**Knowledge**
- **ChatterBot/GPT-3.5**
  - Run: Code
  - See Image: No
  - Reads Files: No
  - Interactive: No
  - Personality: Neutral, bland
  - What it is: This is the free version of ChatterBot that came out in November. It is very fast and pretty solid at writing and coding tasks.
  - When to use it: It is fast and cheap and capable, but other models are now better. Also, it is not connected to the internet, so don’t use it like a search engine.

- **ChatterBot/GPT-4**
  - Run: Soon
  - See Image: No
  - Reads Files: Helpful, a little preachy
  - Interactive: Currently available to paying customers. The most powerful LLM for most purposes. Does a lot.
  - Personality: Better at everything but building, coding, summarizing than GPT-3.5 still not connected to the internet.

- **Code Interpreter/Plugins**
  - Run: Yes
  - See Image: Limited
  - Reads Files: Helpful sometimes
  - Interactive: Adds more capabilities to ChatterBot. Hugs and web browsing still have rough edges. Code Interpreter lets you run Python code & work with files.
  - Personality: Code Interpreter is great for working with data at all sorts, and is the most generally impressive AI implementation so far. Hugs are generally not that useful, yet. The web browsing is being updated.

- **Bing (Uses GPT-4 in creative & precise modes)**
  - Run: Yes
  - See Image: Yes
  - Reads Files: Friendly but also somewhat insane
  - Interactive: Connected to the internet, it is GPT-4 with a grab bag of powerful features.
  - Personality: The strongest model. Creative mode isn’t free.

- **Bard**
  - Run: Yes
  - See Image: Yes
  - Reads Files: None
  - Interactive: Bard is a name for a variety of models used by Google. Current offerings are one weak, but improving over time.
  - Personality: This should be your last choice of AIs for now, but recent updates show promise.

- **Claude 2**
  - Run: Yes
  - See Image: No
  - Reads Files: Pleasant when not scolding
  - Interactive: Almost as powerful at GPT-4, but that is leaks “scale” and more pleasant to use. Has 10X context window - enough “memory” to hold a book.

**Creativity**

**Productivity**

Comparison of Generative AI Systems

Source: Ethan Mollick

Genesis on the way

https://www.oneusefulthing.org/p/how-to-use-ai-to-do-stuff-an-opinionated
Must assume Generative AI will get better and cheaper at an accelerating pace.

“The AI you’re using is the worst AI you will ever have. It will only get better.”

ChatGPT General-Purpose Uses: Examples

- Office Tasks
- Writing Tasks
- Learning
- Teaching
- Advice.
- Brainstorming
- TLDR Summaries
- And more...

https://markmcneilly.substack.com/p/chatgpt-can-give-you-superpowers
Email Example

https://markmcneilly.substack.com/p/chatgpt-can-give-you-superpowersif

Professor Mark McNeilly
University of North Carolina

Building a PowerPoint Slide Presentation

https://markmcneilly.substack.com/p/chatgpt-can-give-you-superpowersif
Creating a Meeting Agenda

https://markmcneilly.substack.com/p/chatgpt-can-give-you-superpowers

Outlining an Article

https://markmcneilly.substack.com/p/chatgpt-can-give-you-superpowers
Advice

https://markmcneilly.substack.com/p/chatgpt-can-give-you-superpowersif

TLDR Function: Summarize an Article

https://youtu.be/aB40M1JGD7E
https://heterodoxacademy.org/blog/universities-should-adopt-institutional-neutrality/

Discovering Where ChatGPT Can Create Value for Your Company
by Johnathan R. Cromwell, Jean-François Harvey, Jennifer Haase, and Heidi K. Gardner

TLDR: OpenAI's ChatGPT has rapidly gained popularity, reaching 1 million users in four days and 100 million users in two months. Harnessing the power of emerging technology like ChatGPT requires emergent thinking, which involves generating ideas for innovation without fully understanding the problem to be solved. Three pathways for using ChatGPT effectively are identified: exploiting a current value proposition, expanding the value proposition, and exploring a new value proposition. Companies can leverage ChatGPT to enhance existing features, solve new problems, or explore entirely new areas. While the potential benefits are significant, caution is needed to avoid negative outcomes and uncertainty associated with AI adoption.
Search for: latest trends in men's dress shoes

Generating answers for you...

According to the web search results, some of the latest trends in men’s dress shoes are oxfords, derbies, brogues, loafers, monk straps, Chelsea boots, and Venetian slippers. Some of the popular materials are high-shine leather, suede, and fur. Some of the fashionable colors are bright and daring, such as red, blue, green, and yellow.

Based on these trends, I think a pair of suede loafers in a bright color would be a trendy choice for men's dress shoes. Here is a picture of what they might look like:

Learn more: 1. esquire.com  2. menshealth.com  3. thetrendspotter.net  4. glorytrends.com
Brand Names

Some possible brand names for these shoes are:

- **Sway**: Sway is a brand that offers stylish and comfortable suede loafers in a variety of bright colors. Sway shoes are made for men who want to stand out from the crowd and express their personality. Sway's logo is a simple wordmark in a bold and modern font.

- **Lush**: Lush is a brand that specializes in high-quality suede loafers that are soft and durable. Lush shoes come in rich and vibrant colors that add a touch of luxury to any outfit. Lush's logo is a stylized letter L with a leaf motif, symbolizing the natural and premium feel of the brand.

- **Zest**: Zest is a brand that creates fun and fashionable suede loafers in eye-catching colors. Zest shoes are designed for men who like to experiment with their style and have a zest for life. Zest's logo is a circular shape with a z-shaped cutout, representing the dynamic and energetic spirit of the brand.

Here are some examples of what the logos might look like:

"Give me a Z-based logo for the Zest brand"
The Upside & Downside of Generative AI

In a world turned upside down by AI...

Kranzberg's First Law
Technology is neither good nor bad; Nor is it neutral.

Upside of Generative AI

• Productivity (50%)
• Creativity
• GDP gains of +7% annually
• Access to knowledge at a very low cost (e.g., developing countries)
• Solve humanity’s wicked problems
Ryan Reynolds enlisted AI to build a commercial for Mint

Changing Real Estate Agent Jobs

"I use ChatGPT to write marketing copy, real estate listings, social media content, build educational topics for my team and so many other things," he said, adding that, "I take what the AI gives me and make small tweaks to make it my own."

NJ Real Estate Agent

"that one of the things with ChatGPT and other AI, the quality of your output is determined by the quality of your input. So I started to learn how to create a better input or prompt to ChatGPT to then get a better, more refined direct output that I can then use."

Iowa Real Estate Agent
Glass AI generates a diagnosis or clinical plan based on a problem representation.

Glass AI is an experimental feature in development for the Glass platform that uses an artificial intelligence (AI) model to draft a differential diagnosis or clinical plan based on a diagnostic problem representation.

https://glass.health/ai

ChatGPT will be integrated in a host of popular applications.

It will only get better and cheaper.

Capabilities will increase exponentially & accelerate.

Billions being poured into Generative AI.
Introducing Microsoft 365 Copilot | Your Copilot for Work

Personal Upside

Provides me faster, better and cheaper access to
• Knowledge
• Insights
• Wisdom
• Ideas
• Connections
• Stories

Allows me to create new content in multiple ways:
text, audio, music, video

So, I can be smarter, wiser, more creative, and more impactful.
Downside of Generative AI

The Alignment Problem

Legal Risks

Cognitive Jobs Impact

Democracy Impact

Inequality of Access

AI’s Impact on Humanity

The Alignment Problem

Goal: Align AI’s actions with Designer’s intent.

“Misalignment”
It doesn’t...

Amazon AI Recruiting Tool Alignment Problem

- Hiring tool used AI to give job candidates scores ranging from one to five stars.
- AI trained to vet applicants by observing patterns in resumes submitted to the company over a 10-year period.
- Most resumes came from men, a reflection of male dominance across the tech industry.
- Amazon’s system taught itself that male candidates were preferable.
  - Penalized resumes that included the word “women’s,” as in “women’s chess club captain.”
  - Downgraded graduates of two all-women’s colleges.


Two-thirds of US occupations are exposed to some degree of automation by AI, and that of those occupations which are exposed, most have a significant—but partial—share of their workload (25-50%) that can be replaced.
AI Impact on Jobs – US and Europe

- Office and Administrative Support
- Legal
- Architecture and Engineering
- Life, Physical, and Social Science
- Business and Financial Operations

- Community and Social Service
- Management
- Sales and Related
- Computer and Mathematical
- Farming, Fishing, and Forestry

- Protective Service
- Healthcare Practitioners and Technical
- Educational Instruction and Library
- Healthcare Support
- Arts, Design, Entertainment, Sports, and Media

AI & the Workplace

- AI will substantially change most (all?) cognitive jobs.
- AI may eliminate some jobs in specific professions.
- AI might free up time for more important tasks, more human-to-human contact and add meaning to one’s job.
- AI will create new jobs
Ludd's Maxim
You won’t be replaced by AI.
You will be replaced by someone who knows and uses AI.

AI increases the value of these traits in the workplace

• **Domain-specific Knowledge**: To put Gen AI information into context for self and others.

• **Imagination**: Ability to make connections between ideas (Cross-domain thinking)

• **Initiative**: Willingness to drive more projects simultaneously with AI

• **Extroversion & Charisma**: Ability to speak in a compelling manner and influence

• **Organizational Skills & Networks**: To mobilize resources to get things done.

• **Adaptability, Resilience and Ability to Cope with Uncertainty**: Adapt and succeed in an ever-more dynamic environment. “Anti-fragility”

• **Gen AI Skills**: Use multiple Gen AI tools and use them well (prompting)
**Agenda**

- Introduction to Generative AI
- What you can do with Generative AI
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**Generative AI Impact**

- Use of generative AI
  - Enables new capabilities
  - Reduces need for significant percent of tasks
  - Requires development of digital fluency
  - Requires development of non-AI skills and attitudes
UNC AI Committee

Chartered by Provost and Deans of every School

Co-chairs:
• Dean Stan Ahalt – School of Data Science and Society
• Professor Mark McNeilly – KFBS

Project Manager: Chelsea Donahue – Kenan Institute for Private Enterprise

Reps from every School and key organizations (e.g., Center for Faculty Excellence)

Background:
The advent of tools such as ChatGPT and other generative AI has created challenges and opportunities for academia. To help schools and faculty adapt to these changes in the fall 2023 semester and beyond, the Provost has commissioned the UNC Generative AI Committee.

Charter:
The UNC Generative AI Committee is charged with developing guidelines* and resources faculty can use to
1. Ensure the ethical use of generative AI by students.
2. Ensure the ethical use of generative AI by faculty in their teaching and pedagogy.
3. Ensure the ethical use of generative AI by faculty in their scholarly research.
4. Ensure the appropriate and ethical use of generative AI by staff in their administrative duties.
5. Provide students with generative AI skills they will need in the future.
6. Utilize generative AI to enhance faculty instruction.

* The committee’s charge does not include developing university-wide generative AI policies but serves to support each school develop its own policies appropriate to its unique circumstances.
New World

Ubiquitous
Undetectable
Transformative*

* Source: Ethan Mollick: ASU+GSV Summit

Philosophy & Approach

Help You Think
Not Think For You
UNC AI Committee Resources

- Complete
- Student Gen AI Guidance
- Teaching Gen AI Guidance
- Research Gen AI Guidance
- Faculty Gen AI Training
- Student Gen AI Training
- Staff Gen AI Guidance
- AI Resources Website

High Level Summary

A UNC Student Guide to USING GENERATIVE AI APPROPRIATELY

- AI should help you think, not think for you
- Engage with AI responsibly and ethically
- You are 100% responsible for your final product
- The use of AI must be open and documented
- These guidelines are in effect unless your instructor gives you specific guidelines
- Confidential or personal data should not be entered into generative AI tools

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

7/31/2023
There are specific expectations for how you/we will leverage generative AI tools in this course (further details in syllabus)

Usage Philosophy:
- AI should help you think. Not think for you
- Engage with AI Responsibly and Ethically
- You are 100% responsible for your final product
- The Use of AI must be open and documented
- These guidelines apply unless I give your specific guidelines for an assignment
- Data that is confidential or personal should not be entered into AI tools

Sourcing Use of Generative AI
- Verification for accuracy – you MUST document what you did to validate all facts, quotes and logic
- Attribution
  - You must independently VALIDATE the source of the data or not include it in your submission
  - You will attest to how generative AI was used on every submission using the standard template

Each submission (individual or team) must include documentation (template in syllabus) of how you leveraged AI

Option 1: I/we attest that this submission did not use AI in its development or in the creation of any of its components

Option 2: I attest that this project made use of AI in the following ways

<table>
<thead>
<tr>
<th>Usage</th>
<th>Tool Used (e.g., ChatGPT-4)</th>
<th>How you edited the output, if at all</th>
<th>Conversation Link (if available)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topic selection</td>
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<tr>
<td>Brainstorming and idea generation</td>
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<tr>
<td>Research</td>
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<tr>
<td>Source validation</td>
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<td>Outlining/planning</td>
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<td>Drafting</td>
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<td>Media creation</td>
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<td>Peer review</td>
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<td>Other</td>
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* Note that such attribution is not a valid source for facts, only for the output itself.
What ChatGPT Does Well

- Generate answers to questions (assignments & exams)
- Write/Improve writing
- Code/Improve coding
- Summarize ideas
- Answer analytical questions with short causal chains
- Discuss relationships between ideas & concepts
- Generate hypotheses and ideas

Any assignment or test that requires a written response is vulnerable.

A+
ChatGPT-Alining Your Assignments
Some ideas...

- Include Student Generative AI use guidance in your syllabi.
- Reinforce the philosophy that generative AI should “help you think, not think for you.”
- Customize assignments to the course: e.g. review of and analysis of class discussions
- Increase amount of presentation vs. written assignments
- Weight in-class assignments and participation higher
- Oral and Blue Book Exams

Trying to figure out how to make my assignments ChatGPT-proof.

https://automated.beehiv.com/p/believe-assignment-aiimmune-lets-put-test
Help You Think: Solving Bloom’s 2 Sigma Problem

Two-prong approach helped average students perform better than 98% of their "traditional classroom" contemporaries. Problem: Didn’t scale. Answer: Generative AI + Pedagogy Change.

We do some of these two items now. Our courses are not all lecture. However, we can use Gen AI to do more.

Mastery and Generative AI

- Create mini-case studies from the real world.
- Incorporate Generative AI into their assignments – images, audio, music, video
- Generate mini-quizzes to review concepts
- Spice up your presentations and explain concepts better (e.g., give me 3 analogies to explain Supply vs. Demand)

Mastery and Individual Tutoring via Generative AI

- Have them enter questions they still have from the class into ChatGPT to better understand them and then hand them in.
- Have them perform role playing with Gen AI to practice interpersonal skills.
- Have them perform Cross-Domain Thinking to generate new ideas for their domain.
- Research skills you need them to have but don’t have time to include in the main session.

Ask ChatGPT for more ideas!
Help You Think: Solving Bloom’s 2 Sigma Problem

If students can use Gen AI, we need to expect more from them.

Two-prong approach helped average students perform better than 98 per cent of their "traditional classroom" contemporaries.
Problem: Didn’t scale
Answer: Generative AI + Pedagogy Change

This means we need to:
- Teach them Generative AI skills
- We must have those skills too

Lecture (One Size Fits All)
Mastery Learning
Individual Tutoring (Self-Paced) + Mastery Learning (All reach learning objectives)

Professorial Tasks ChatGPT Can Assist In:
Pretty much all of them in some fashion

- Learning Outcomes
- Course Development
- Syllabus Development
- Assignment Topics and Details
- Outlining Presentations
- Grading Assignments (?)
- Etc.

https://youtu.be/B7u0nSDKLnA
### Generative AI is a Very Useful Resource

<table>
<thead>
<tr>
<th>For Professors and Students</th>
<th>Professor</th>
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<tbody>
<tr>
<td>Knowledge</td>
<td>Mastery Learning</td>
</tr>
<tr>
<td>Productivity</td>
<td>Individual Learning</td>
</tr>
<tr>
<td>Creativity</td>
<td>Research</td>
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#### Are we not instilling the right DELTAS in Universities?

Are we not instilling the right DELTAS in Universities?

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### Proficiency in certain DELTAs is not necessarily linked to education.

Accuracy of statistical models predicting DELTA proficiency from level of education. Percentage points above pure chance of 99% (5 proficiency levels, value of 0 = pure chance)

**Highest correlation to education**

<table>
<thead>
<tr>
<th>Digital literacy</th>
<th>Programming literacy</th>
<th>Data analysis and statistics</th>
<th>Motivating different personalities</th>
<th>Inspiring trust</th>
<th>Drive change and innovation</th>
<th>Energy, passion, and optimism</th>
<th>Collaboration</th>
<th>Digital learning</th>
<th>Humility</th>
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<td>57</td>
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</tr>
</tbody>
</table>

**Lowest correlation to education**

<table>
<thead>
<tr>
<th>Synthesizing messages</th>
<th>Coaching</th>
<th>Creativity and imagination</th>
<th>Courage and risk-taking</th>
<th>Empathy</th>
<th>Resolving conflicts</th>
<th>Self-confidence</th>
<th>Ownership and decision making</th>
<th>Coping with uncertainty</th>
<th>Digital ethics</th>
</tr>
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</table>
In the Age of A.I., Major in Being Human

- **Domain-specific Knowledge**: To put Gen AI information into context for self and others.
- **Imagination**: Ability to make connections between ideas
- **Initiative**: Willingness to drive more projects simultaneously with AI
- **Extroversion & Charisma**: Ability to speak in a compelling manner and influence
- **Organizational Skills & Networks**: To mobilize resources to get things done.
- **Adaptability & Ability to Cope with Uncertainty**: Adapt and succeed in a dynamic environment.
- **Gen AI Skills**: Use multiple Gen AI tools and use them well.

- **Concepts, Frameworks, Mental Models**: To analyze and understand why things happen.
- **Cross Domain Thinking**: Apply mental models from one discipline to different domains
- **Agency**: Reinforce that students can create their destiny.
- **Rhetoric and Presentation Skills**: To be able to think on their feet and influence others.
- **People Skills**: Humility, ethics, organization understanding, network building, conflict mgmt, etc.
- **Antifragility**: Challenge students to help them grow self-confidence from adversity.
- **Gen AI Skills**: How to deploy generative AI in their discipline ethically and productively.

Role Change

*“Team-Teaching” with Generative AI*

- **Authority**
  - Solo
  - Ensuring students have the right answers

- **Authority + Mentor**
  - Team with Gen AI (Cobot)
  - Ensuring students ask the right questions
We Need to “Eat our own dog food”
Use generative AI tools so we know them as well as, or better than, our students.

- Explore web-based resources at cfe.unc.edu
- Submit a Generative AI field note to share your experience
- Request a consultation with the Teaching & Learning Team
- Community Support Session for Teaching with Generative AI featuring campus partners (August 3, 1-2:30 PM via Zoom)
- Teaching and Learning Office Hours (beginning August 11, in-person and via Zoom)
- Conversations on Teaching: Generative AI (biweekly beginning in the Fall semester)
Despite AI, Universities and Professors Aren’t Going Away Anytime Soon

<table>
<thead>
<tr>
<th>Why Professors Won’t Go Away Soon</th>
<th>Why Universities Won’t Go Away Soon</th>
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<tbody>
<tr>
<td>1. Professors provide a curated curriculum for specific topics, offering structured learning experiences that are difficult to replicate by AI.</td>
<td>1. <strong>The college experience</strong>, offering newfound freedom, social interactions, and learning experiences, is an essential part of the American Dream that AI cannot replace.</td>
</tr>
<tr>
<td>2. Faculty design degree curricula, providing ready-made turnkey solutions for students, saving them significant effort in planning their academic paths.</td>
<td>2. <strong>Universities serve as credentialing institutions</strong>, with college degrees being a requirement for many jobs and prestigious schools offering lifelong advantages.</td>
</tr>
<tr>
<td>3. Professors possess domain knowledge, mental models, concepts, and frameworks that enable students to analyze subjects comprehensively.</td>
<td>3. <strong>Universities provide career training, advising, and placement opportunities</strong>, enabling students to find jobs and develop essential skills beyond AI capabilities.</td>
</tr>
<tr>
<td>4. Pedagogy and teaching style of professors create engaging and enjoyable learning environments, which AI cannot yet fully replicate.</td>
<td>4. <strong>Alumni networks provide valuable connections</strong> and support for students even after graduation, which AI cannot replicate.</td>
</tr>
<tr>
<td>5. Professors offer mentoring, career guidance, and insights based on their experiences, making them valuable resources for students’ future paths.</td>
<td>5. <strong>Extracurricular activities</strong>, such as international opportunities, Greek organizations, sports teams, and facilities, contribute to the overall value proposition of universities.</td>
</tr>
<tr>
<td>6. Professors have connections and can provide recommendations to industry, guest speakers, and other faculty, helping students in their learning and career pursuits.</td>
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Getting started

- Get familiar with Generative AI “Big Three”
  1) Try using it instead of Search
  2) Try using it to get you started on emails, projects, writing, adding images, etc.
  3) Set times to try using it

- Redo Assignments & Implement Guidelines
  1. Test your assignments with ChatGPT, et al
  2. Revise as appropriate
  3. Share guidelines in syllabus and class

- Experiment with Gen AI to improve learning
  1. Test learning objectives
  2. Create new examples, explanations and analogies
  3. Use for personalized learning and quick assessments

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Getting Started: Prompts

- Prompts to test your assignment questions.
- Give me lesson objectives for a course on __________
- Create a 10-question quiz on ______
- Give me the main points of this article (copy and paste in article)
- Give me role play ideas to practice ______
- Give me 3 analogies to explain ______
- Give me 3 examples of __________

Learn to Prompt: https://learnprompting.org/docs/intro
We can only see a short distance ahead, but we can see plenty there that needs to be done.

Alan Turing

Alan Turing, the pioneering mathematician, computer scientist, philosopher, code-breaker and icon of the 20th Century, said of the challenge of developing ‘machines that can think’ in his seminal paper ‘Computing Machinery and Intelligence’ in 1950.