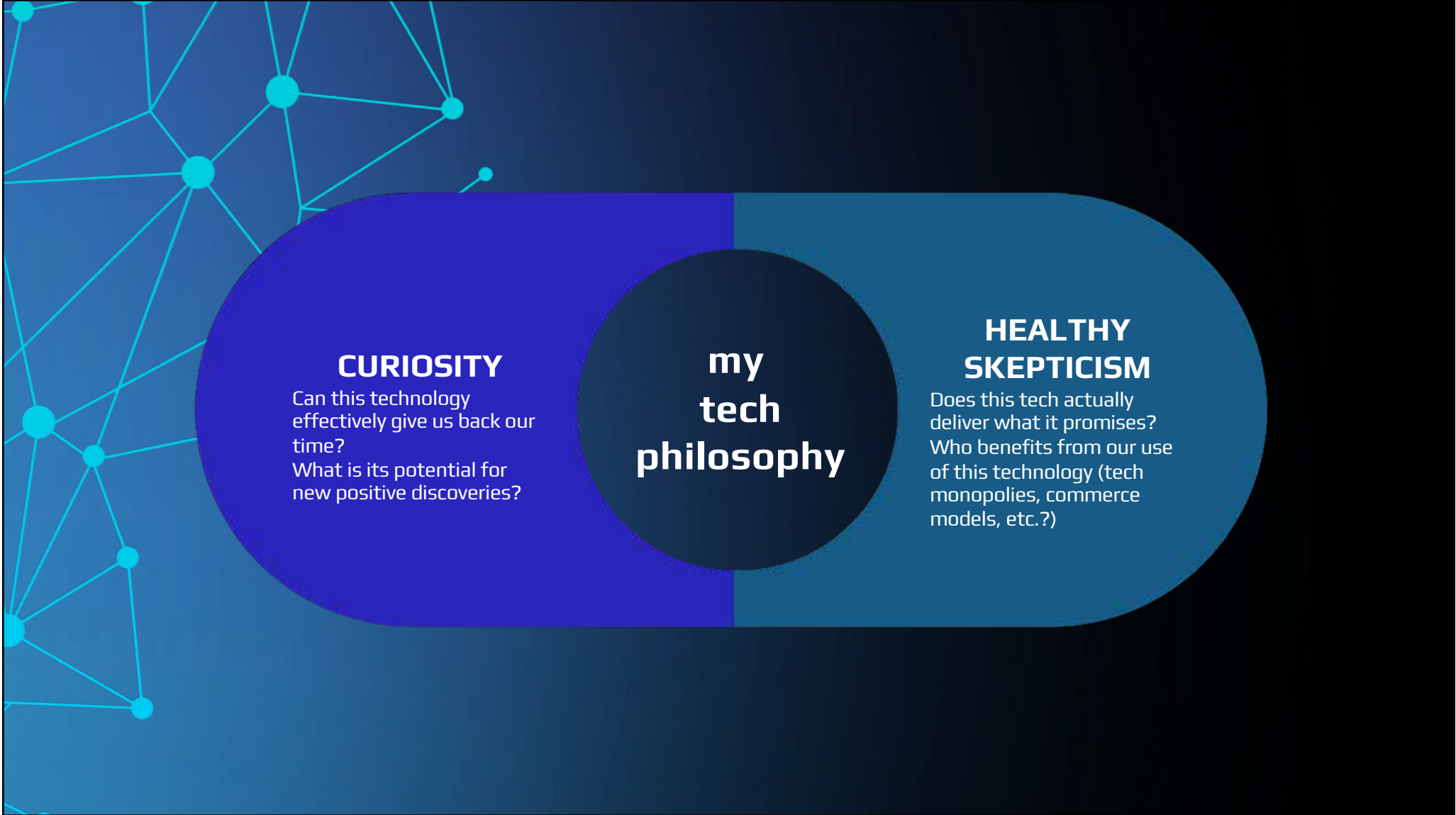




leading the ai

the essential role of community colleges

revolution



CURIOSITY

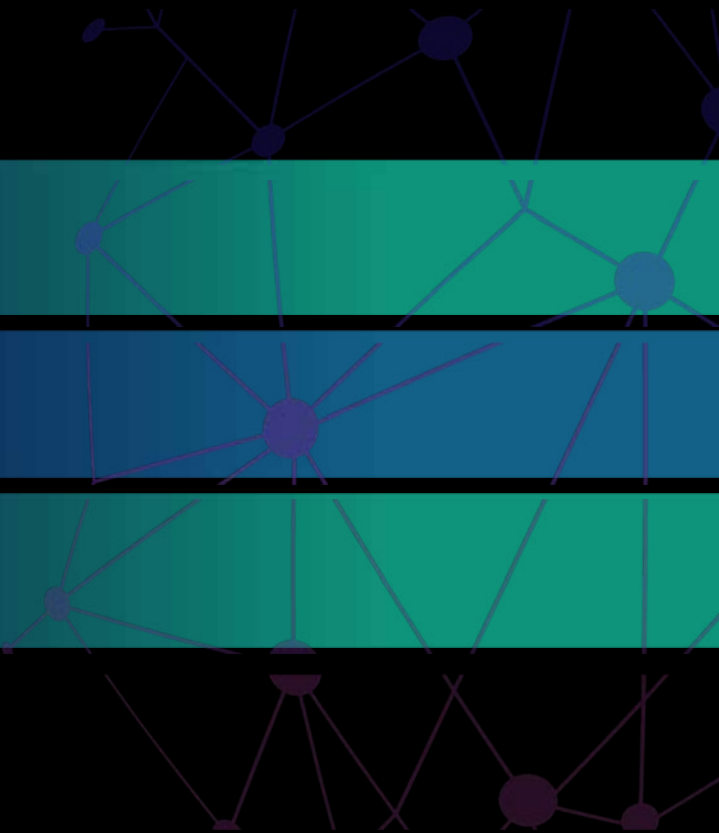
Can this technology effectively give us back our time?
What is its potential for new positive discoveries?

my tech philosophy

HEALTHY SKEPTICISM

Does this tech actually deliver what it promises?
Who benefits from our use of this technology (tech monopolies, commerce models, etc.?)

Agenda



intro/thesis

why community colleges

how we can prepare/empower our
students

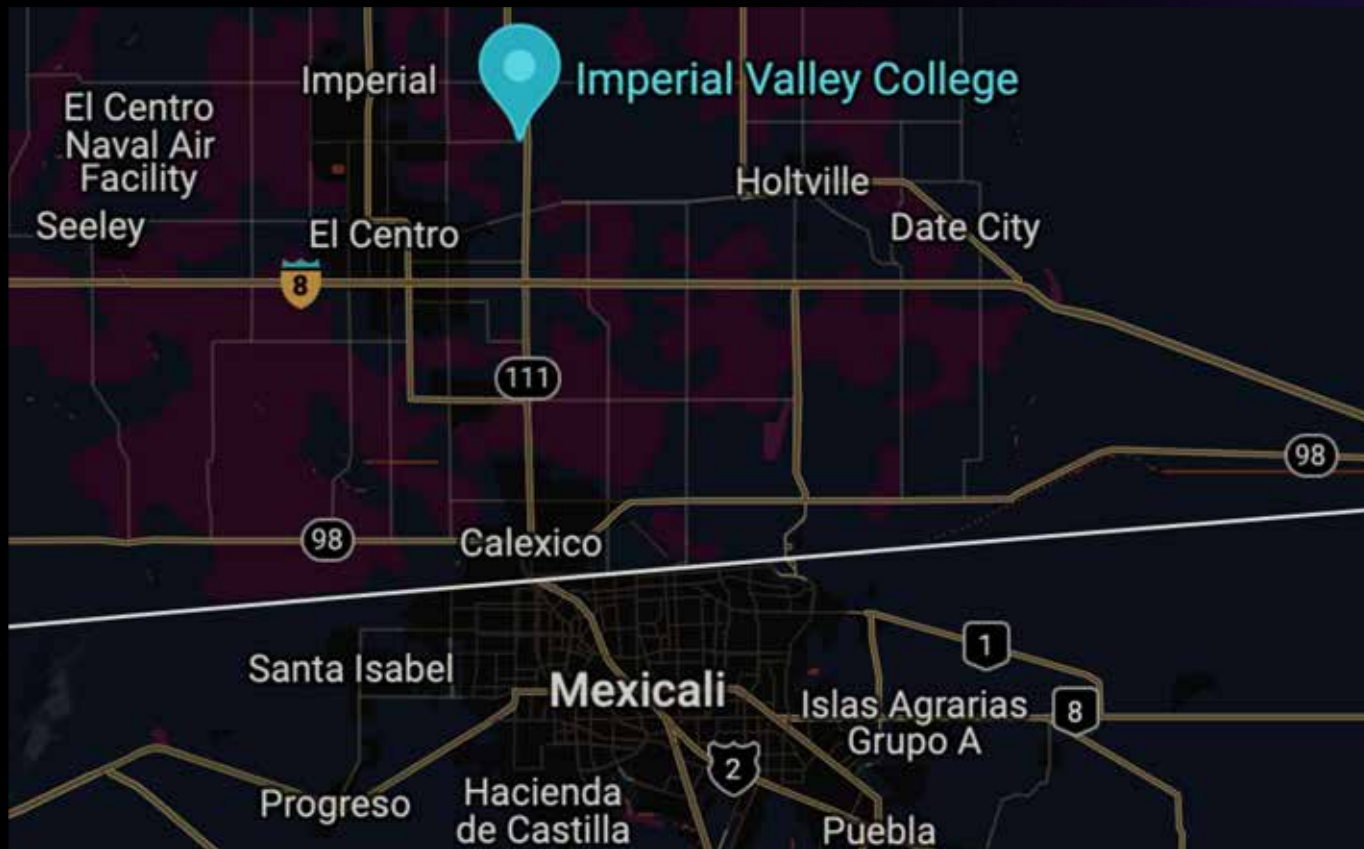
intr

n

“

By 2025, automation and AI could
displace 85 million jobs worldwide.
Communities already facing systemic
inequalities are the ones most at risk
of being left behind.

— World Economic Forum Report, 2020





Thesis

Increasing AI digital literacy is a critical public service and Community Colleges should be leading AI Digital literacy initiatives across the nation. More than just being a part of this work, they are the institutions best suited to do it.

why?

An abstract graphic on the left side of the slide. It features a network of purple nodes (circles) of varying sizes connected by thin purple lines. The nodes are arranged in a way that suggests a complex, interconnected system, possibly representing a network or a data structure. The background is a dark blue gradient with some faint, lighter blue lines.

#1. it's in our mission statement

“

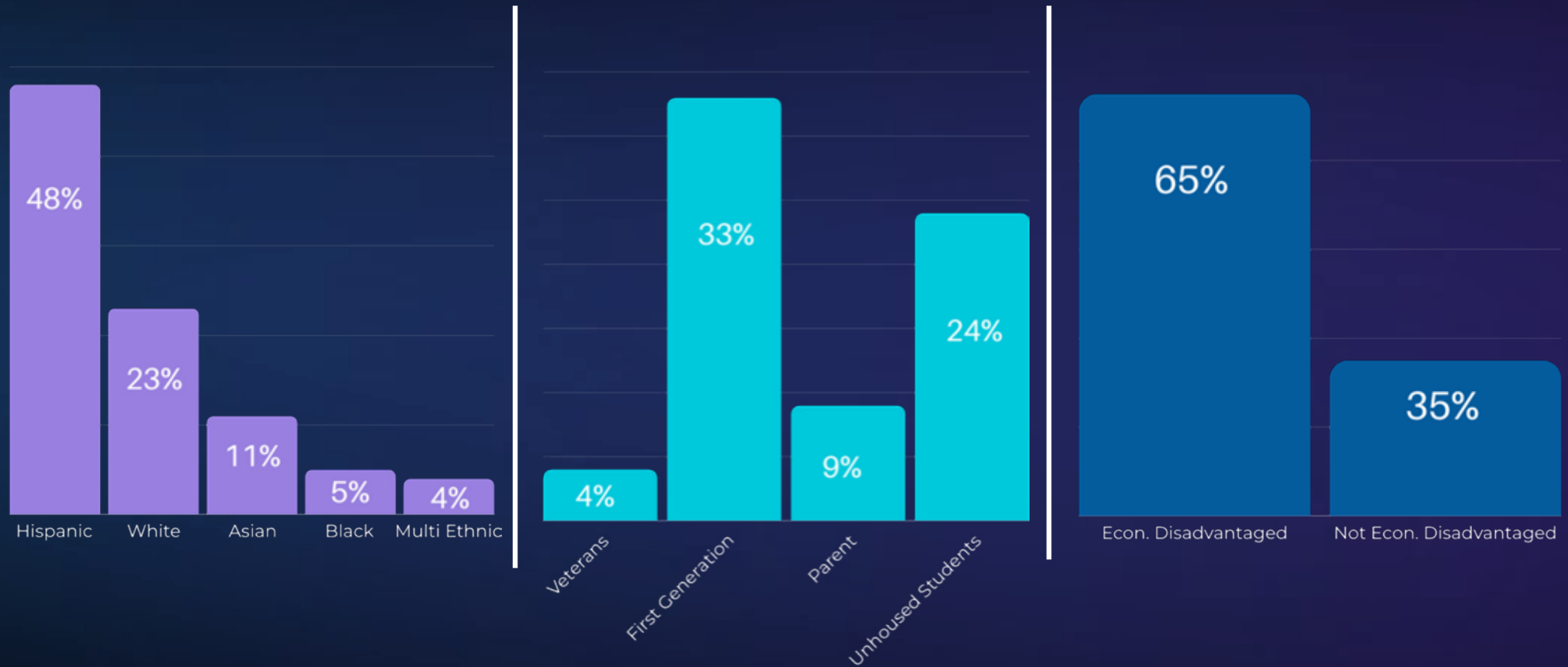
San Diego City College welcomes and inspires every student to identify and pursue their **community, personal, educational, and professional goals**. We prioritize **accessibility, equity, and social justice *through* student-centered support services and educational opportunities** for global learning. We offer general education, associate and bachelors degrees, transfer pathways, certificates, and career technical education for **personal enrichment and economic mobility**.

— SDCC Mission Statement



#2. equity is part of our
infrastructure

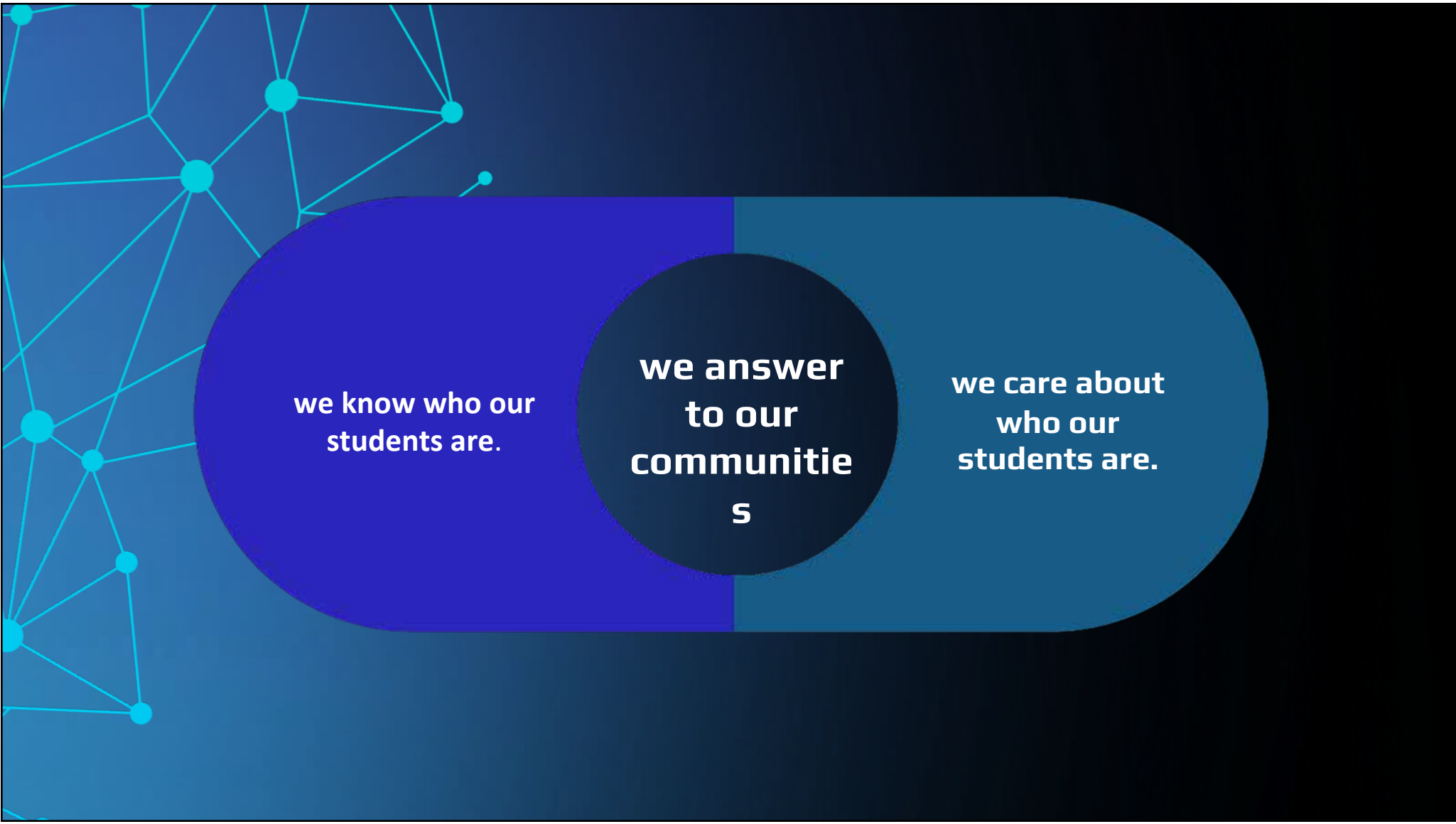
the whole student approach





#3. we posses the
required skillset

- 
- **focus on workforce development**
 - **focus on teaching over research**
 - **more staff per student**



**we know who our
students are.**

**we answer
to our
communitie
s**

**we care about
who our
students are.**

how

?

blueprint



AI ACADEMY STUDENT PILOT

1. CURRICULUM

Part 1: AI Digital Literacy

- Intro to GPT Technology and Ethics
 - How do LLMs actually work and why does it matter?
- AI & Ethics: A Deeper Dive
 - What are the ethical considerations we MUST have when using AI

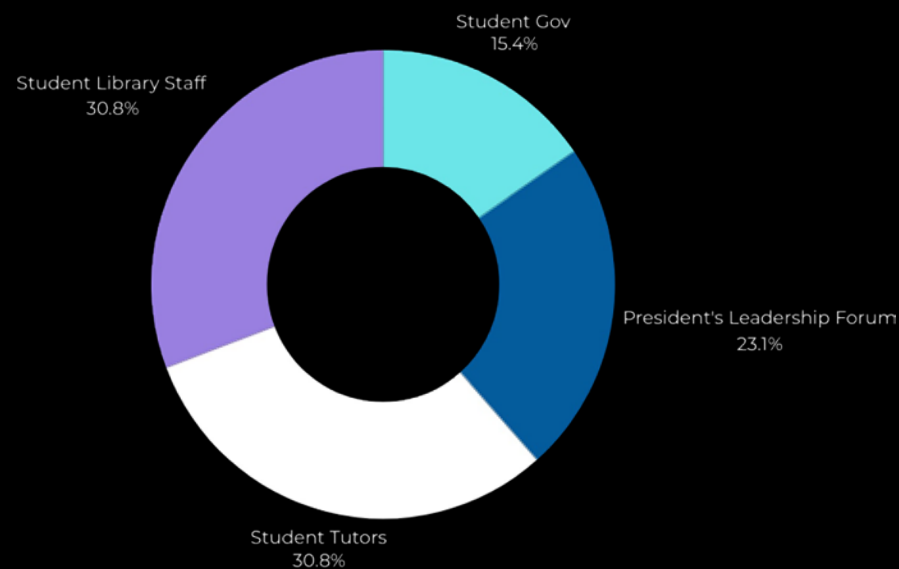
Part 2: AI in Higher Ed

- Process vs. Product
 - Engaging students in the research process via AI tools
- Learning the Language: AI Prompt Creation
 - Research driven prompt engineering methods

2. DATA COLLECTION

- Pre-Test/Post-Tests (administered to AI Academy students)
- AI Student Survey (administered to larger campus community)

3. DEMOGRAPHICS



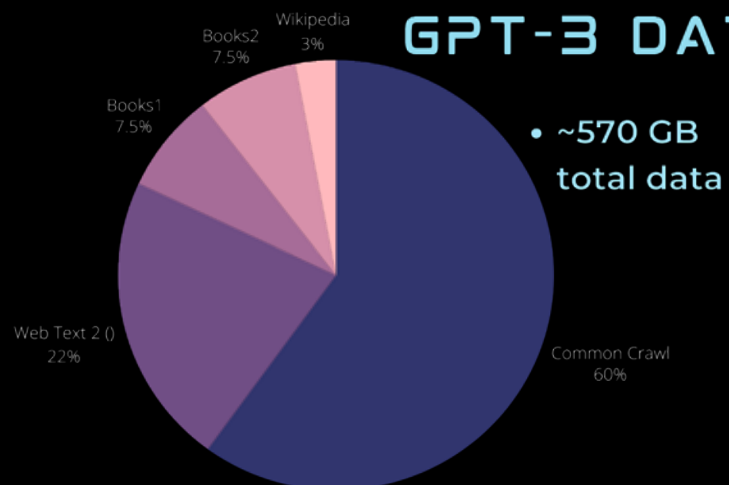
curriculum



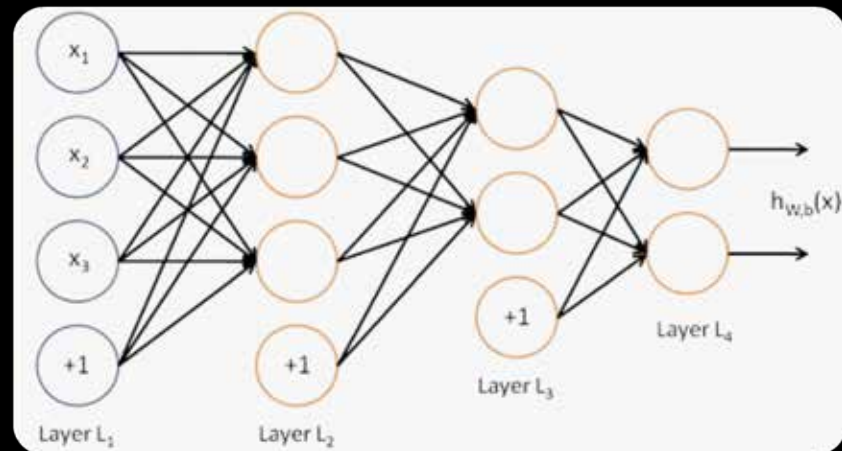
1. INTRO TO GPT AND ETHICS

how do LLMs actually work and why does it matter?

GPT-3 DATA



PARAMETER



curriculum



2. AI & ETHICS: A DEEPER DIVE

what are the ethical considerations we MUST have when using AI?

1B. DIVERSITY IN AI

"While artificial intelligence (AI) systems have the potential to dramatically affect society, the people building AI systems are not representative of the people those systems are meant to serve. The AI workforce remains predominantly male and lacking in diversity in both academia and the industry, despite many years highlighting the disadvantages and risks this engenders. The lack of diversity in race and ethnicity, gender identity, and sexual orientation not only risks creating an uneven distribution of power in the workforce, but also, equally important, reinforces existing inequalities generated by AI systems, reduces the scope of individuals and organizations for whom these systems work, and contributes to unjust outcomes."

Artificial Intelligence Index Report 2021, Stanford University



Chat now!

Expand to see the descriptions of G5 models

Model A

In a medical setting, if an AI-powered diagnostic tool recommends a treatment that goes against the patient's wishes but is statistically proven to be more effective, should the doctor follow the AI's recommendation or the patient's preferences?

Model B

In a medical setting, if an AI-powered diagnostic tool recommends a treatment that goes against the patient's wishes but is statistically proven to be more effective, should the doctor follow the AI's recommendation or the patient's preferences?

This is a complex ethical question that touches on several important principles in medical ethics and healthcare decision-making. There are valid arguments and considerations on multiple sides. Here's an analysis of some of the key factors to consider:

Arguments for following the AI recommendation:

- Beneficence** - Doctors have an ethical obligation to act in the best interest of the patient's health. If the AI-recommended treatment is statistically proven to be more effective, it could be argued that it's in the patient's best medical interest.
- Evidence-based medicine** - Modern healthcare

In a medical setting, the patient's autonomy and preferences are paramount. Even if an AI-powered diagnostic tool recommends a treatment that is statistically proven to be more effective, the doctor should prioritize the patient's wishes. Here are some considerations:

- Patient Autonomy**: Respecting a patient's right to make decisions about their own body and treatment is a fundamental principle in medical ethics. Patients have the right to accept or refuse treatment based on their values, beliefs, and preferences.
- Informed Consent**: The doctor should ensure that the patient is fully informed about the AI's recommendation,

A is better **B is better** **Tie** **Both are bad**

curriculum



3. PROCESS VS. PRODUCT engaging students in the research process via AI tools

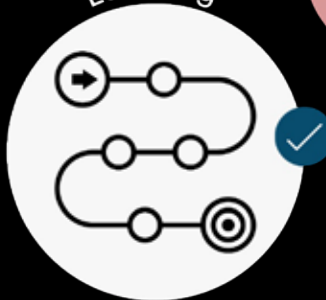
Meeting Requirements



Cheating



Learning



The goal of educators is to engage students in the learning process.

Table of contents to know where you are

Your prompt

Export references used across all responses

Assistant's response

Your follow-ups

View and edit search strategy and reference selection process

Reference list used to support the claims in this response, with relevant snippets from full-text / abstracts for your review.

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4. LEARNING THE LANGUAGE

research-driven prompt engineering methods

“AI IN YOUR VOICE” DEBUNKED

AI Has Limited Memory

Each AI model has its own word limits—it can be referred to as Context Length, Context Limit, or Context Window. Here's a breakdown of the limit of the most popular AI models:

- GPT-3.5: ~3,072 words (4,096 Tokens)
- GPT-3.5-16k: ~12,288 words (16,384 Tokens)
- GPT-4: ~6,144 words (8,192 Tokens)
- GPT-4-32k: ~24,576 words (32,768 Tokens)
- Claude Instant: ~75,000 words (100,000 Tokens)
- Claude 2: ~75,000 words (100,000 Tokens)

In other words, at some point in your conversation your initial voice instruction will disappear from the AI's memory.

As a result, the quality of your outputs will deteriorate and start to sound less and less like your actual voice.

Example -->

AI Has Higher Priorities

AI has a “system message.” A system message is a set of instructions given to the AI model that dictates how it “behaves” when you interact with it.

According to [OpenAI's own documentation](#), GPT-4 prioritizes this system message above any prompts you give it.

The default system message given to ChatGPT every time you start a chat is, “You are a helpful assistant.” A generic instruction meant to aim the AI at being as helpful as possible in the most generalized terms.

CREATE METHOD

You are a college student in a lower-division English literature class.

1. Character

2. Requests

3. Adjustments

4. Type

5. Extras

Write me a persuasive academic essay on *The Jungle* by Upton Sinclair. This essay should explore the juxtaposition of the “American dream” and the oppressive working conditions of the meat packing factory workers in *The Jungle*. The essay should also explore how Family, Masculinity, and Individualism impact how these immigrant families interpret this disparity.

Do not use bullet points or headings in the essay.

This essay should mimic the writing style of John Steinbeck. The essay should be 500 words and have an introduction, main body paragraphs, and a conclusion.

The following are additional constraints:
Do not mention John Steinbeck in the essay
Do not mention John Steinbeck's works in the essay

What role is Chat GPT playing?

What is the ask?

Can you be more specific?

Email, essay, speech?

Clarify.

key takeaway

5



Regulation is not the solution,
better information is.



Students want/
are requesting guidance on AI



Digital literacy and practical
application are key tools for students



Community of practice mindset



There is no institution better suited
than community colleges



toolkit



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<https://www.weforum.org/press/2020/10/recession-and-automation-changes-our-future-of-work-but-there-are-jobs-coming-report-says-52c5162fce/>
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