Four colorful robots (red, light blue, yellow, and dark blue) wearing black pirate hats with skull and crossbones emblems. They are holding a white rectangular sign. The background is a teal gradient.

Office for Faculty
Excellence
October 15, 2024

Choosing Among Chatbots and AI Tools for Educators

ECU COE AI Professional Development Work Group



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- AI Readiness & Literacy
- AI Ethics & Concerns
- AI Tools & Applications
- AI Experimentation
- AI Prompting Tips



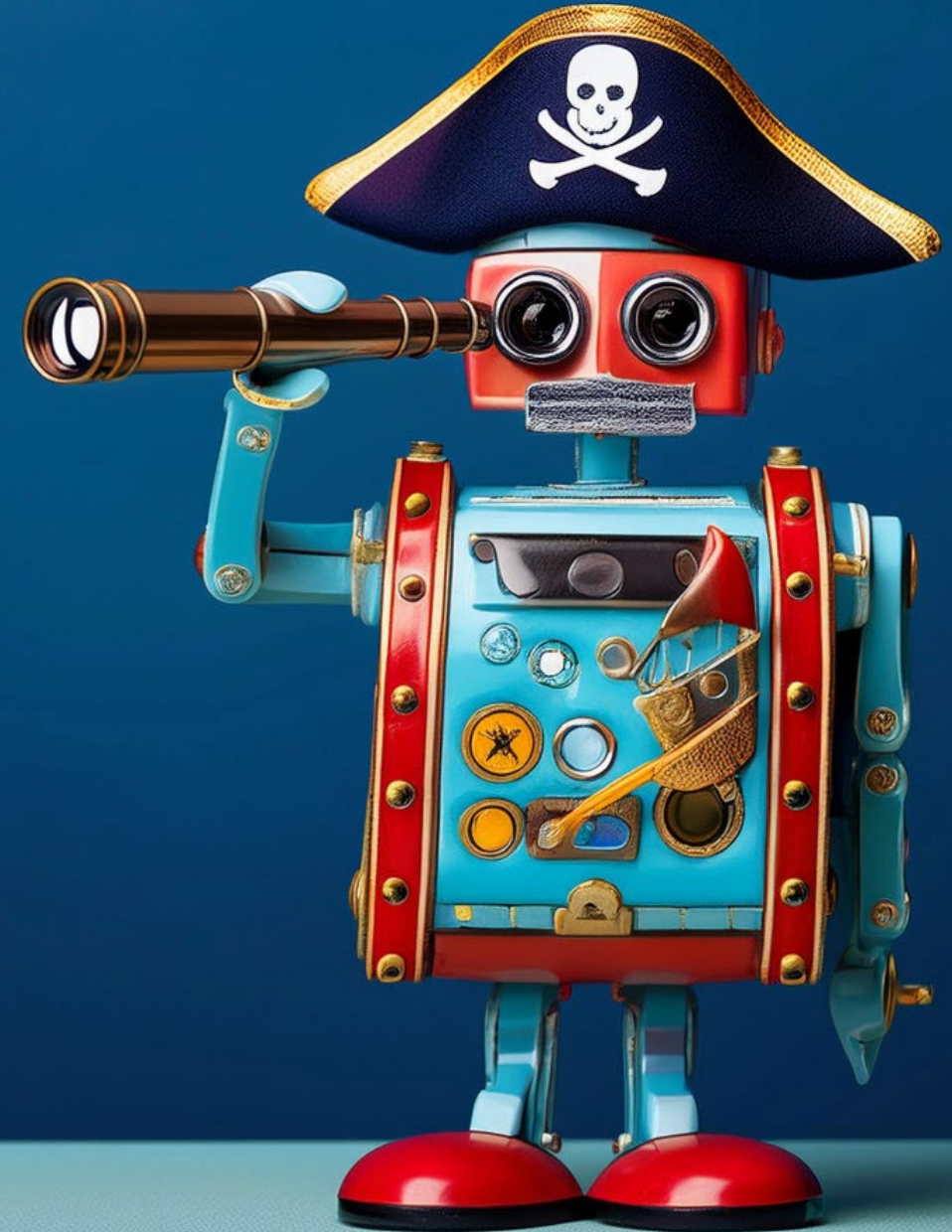
Today's Topics

What is AI Readiness?

“The transition from not understanding what AI is and what AI can do, to being able to understand, in non-technical terms, what AI is capable of achieving...

AI readiness is about helping people to understand enough about AI to make good decisions about procuring and using AI to meet their particular needs.”

- Luckin et al. (2022)



What is AI Readiness?

4 Components of AI Readiness

Cognition

Knowledge about the functions of AI, importance of AI in the field, and relationships between AI and humans

Ability

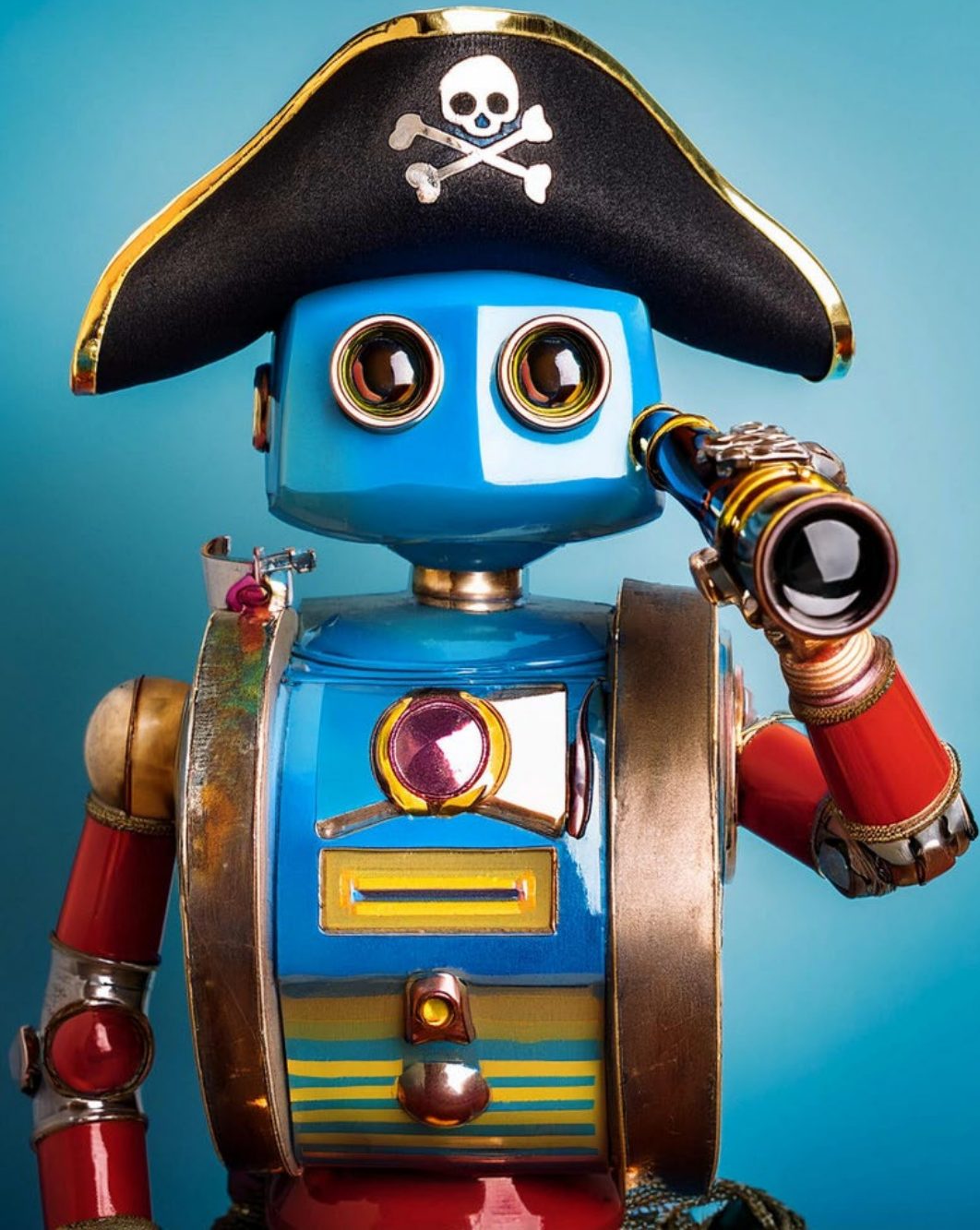
Competence and skills for using AI, selecting appropriate technologies, and designing new approaches to tasks

Vision

Perceptions about strengths and limits of AI and insights into AI-related opportunities and challenges

Ethics

Compliance with ethical and legal norms and regulations related to AI use in the profession



What is AI Literacy?

“AI literacy means having the essential abilities that people need to live, learn and work in our digital world through AI-driven technologies, and this should be taught at the K-12 levels”

- Steinbauer et al. (2021)

“A set of competencies that enable individuals to critically evaluate AI technologies; communicate and collaborate effectively with AI; and use AI as a tool online, at home, and in the workplace.”

- Long & Magerko (2020)

What is AI Literacy?

4 Common Concepts in AI Literacy Definitions

Know & Understand AI

Know the basic functions of AI and how to use AI applications

Use & Apply AI

Apply AI knowledge, concepts, and applications in different scenarios

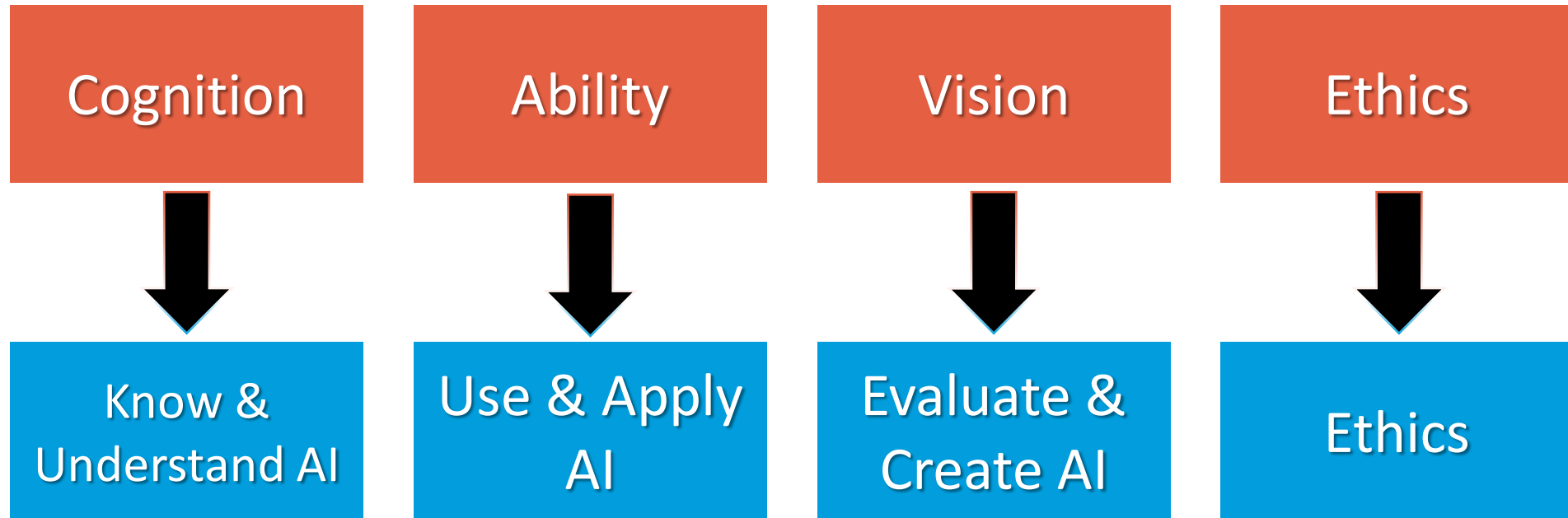
Evaluate & Create AI

Evaluate, appraise, predict, design, and develop with AI applications

Ethics

Human-centered considerations (e.g., fairness, accountability, transparency, ethics, safety)

AI Readiness & Literacy



AI Ethics and Areas of Concern

Data Security

Privacy

Bias

- Academic Integrity
- User Privacy
- Intellectual Property
- Bias
- Perceived Authoritativeness
- Dependence/Overreliance
- Diminished Critical Thinking
- De-emphasis on Interpersonal Relationships
- Less Personal Attachment to Products
- Information and Data Security

ECU Data Governance Guidelines

<https://datagovernance.ecu.edu/institutional-data-and-ai-guidance/>

AI Tools Overview: Access, Audience, and Purpose

ChatGPT

Free or paid

Everyone

Broad use

Gemini

Free or paid

Everyone, Developers

Broad use

Perplexity

Free or paid

Everyone

Conversational Search Engine

School AI

Free

Educators

Instructional materials

Magic School AI

Free or paid

Educators, students

Instructional materials

Claude

Free or paid

Everyone

Broad use

Bing

Free or paid
(ECU login)

Everyone

Search engine, chatbot

Co-Pilot

Free or paid

Microsoft Office users

Augment Microsoft tools

AI Experimentation: App Development

Using HTML, CSS, and JavaScript, create a lesson that helps someone learn about the Cartesian Coordinate System.

Gemini

Microsoft Copilot

Claude

AI Experimentation: Assessments

Prompt

The student will write a public policy critical analysis essay.

In a 5-7-page essay, analyze the policy surrounding affordable housing in a specific urban area. In your analysis, address the following: factors contributing to housing insecurity, current policy approaches, potential impacts of different policy proposals, and the various stakeholders involved. Consider both the benefits and drawbacks of potential solutions.

Use the following scoring categories:

Accomplished, Proficient, Developing, Novice

Break up the criteria to address each of the required components listed in the description.

SchoolAI

MagicSchoolAI

AI Experimentation: Interview Activities

Prompt

"I would like to conduct an interview with you, and you will pretend to be a role that I will assign you."

Introduction:

"Can you please introduce yourself and provide an overview of your experience in the field of [selected area], specifically in the role of [selected role]?"

Role Responsibilities:

"As a [selected role], what are your primary responsibilities in supporting adult learners within [selected area]?"

Future Growth:

"From your perspective, how do you see the field of [selected area] evolving over the next few years, and what factors will drive this growth?"

Community Impact:

"How will advancements in [selected area] of adult education benefit the community, and what positive changes do you anticipate as a result?"

Challenges and Opportunities:

"What are some of the main challenges you face in your role as [selected role] within [selected area], and what opportunities do you see for overcoming these challenges?"

Innovations and Trends:

"Can you highlight any recent innovations or emerging trends in [selected area] that are shaping the way adult education is delivered?"

Personal Insights:

"What personal insights or experiences have significantly influenced your approach to your role as [selected role] in [selected area]?"

ChatGPT

Gemini

AI Experimentation: Instructional Activities and Materials

Prompt

“I am a university professor in a College of Business. I teach project management to MBA students in a fully online program. Provide a list of 8 asynchronous, UDL-based activities I can use to teach my online students about Task Analysis and Work Breakdown Structures. For each activity provide a brief description of how it is rooted in UDL principles.”

Perplexity

Microsoft
Co-Pilot

What common elements did you see in the prompts used today?



Prompting Tips

- Be Clear
- Be Specific
- Provide Context
- Include Definitions
- Stipulate Tone or Style
- Provide Examples
- Break Down Complex Tasks into Smaller Tasks
- Prompt Iteratively

Questions?

