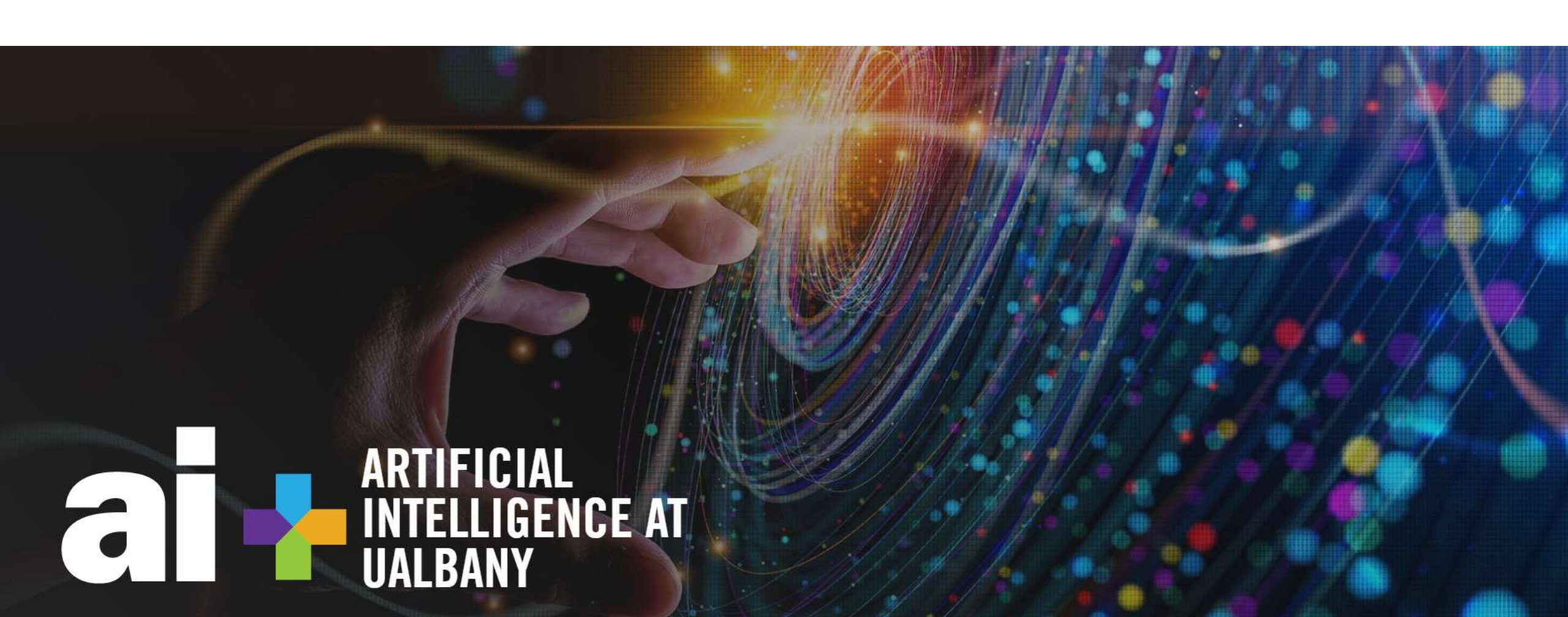
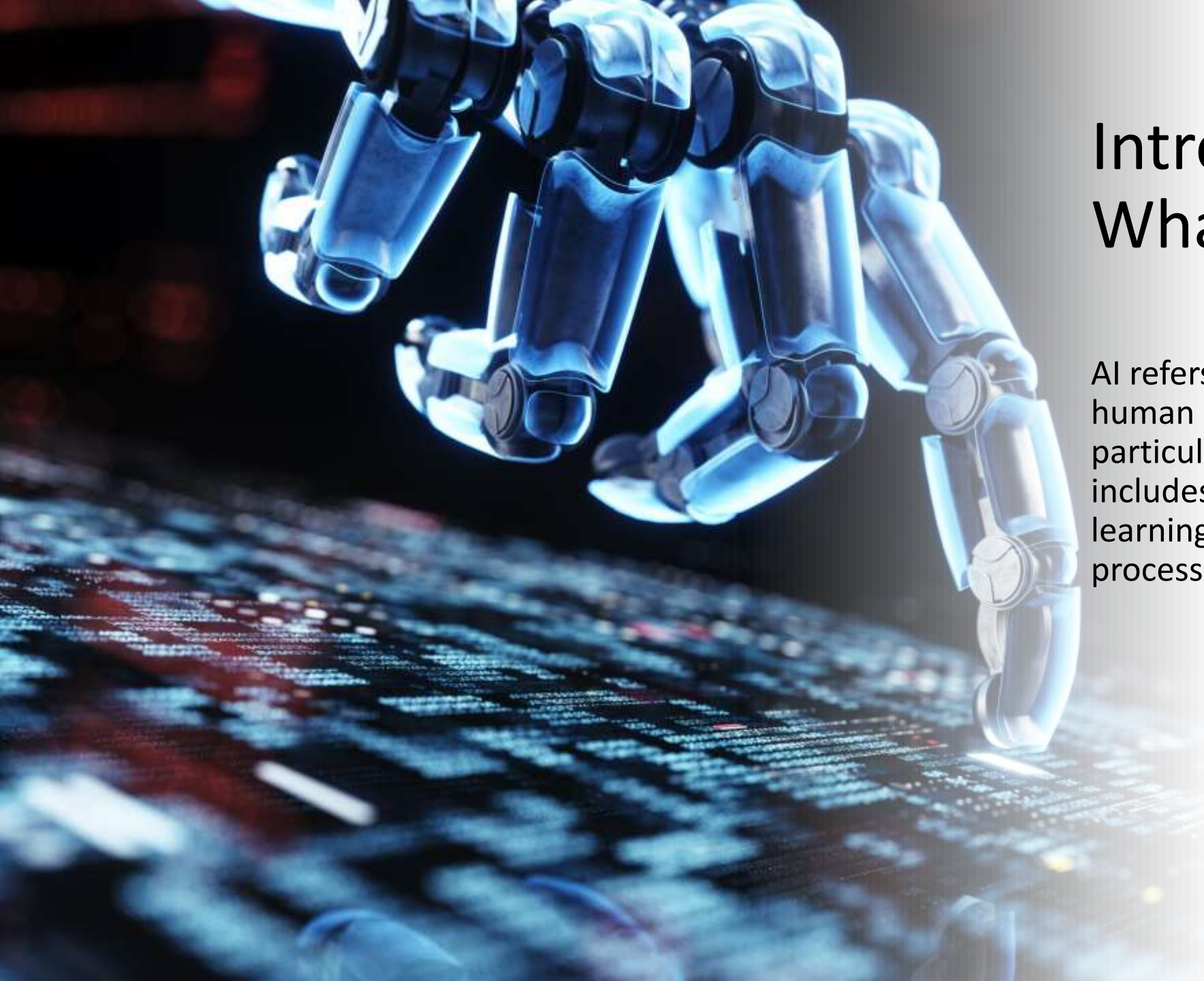




ai



**ARTIFICIAL
INTELLIGENCE AT
UALBANY**

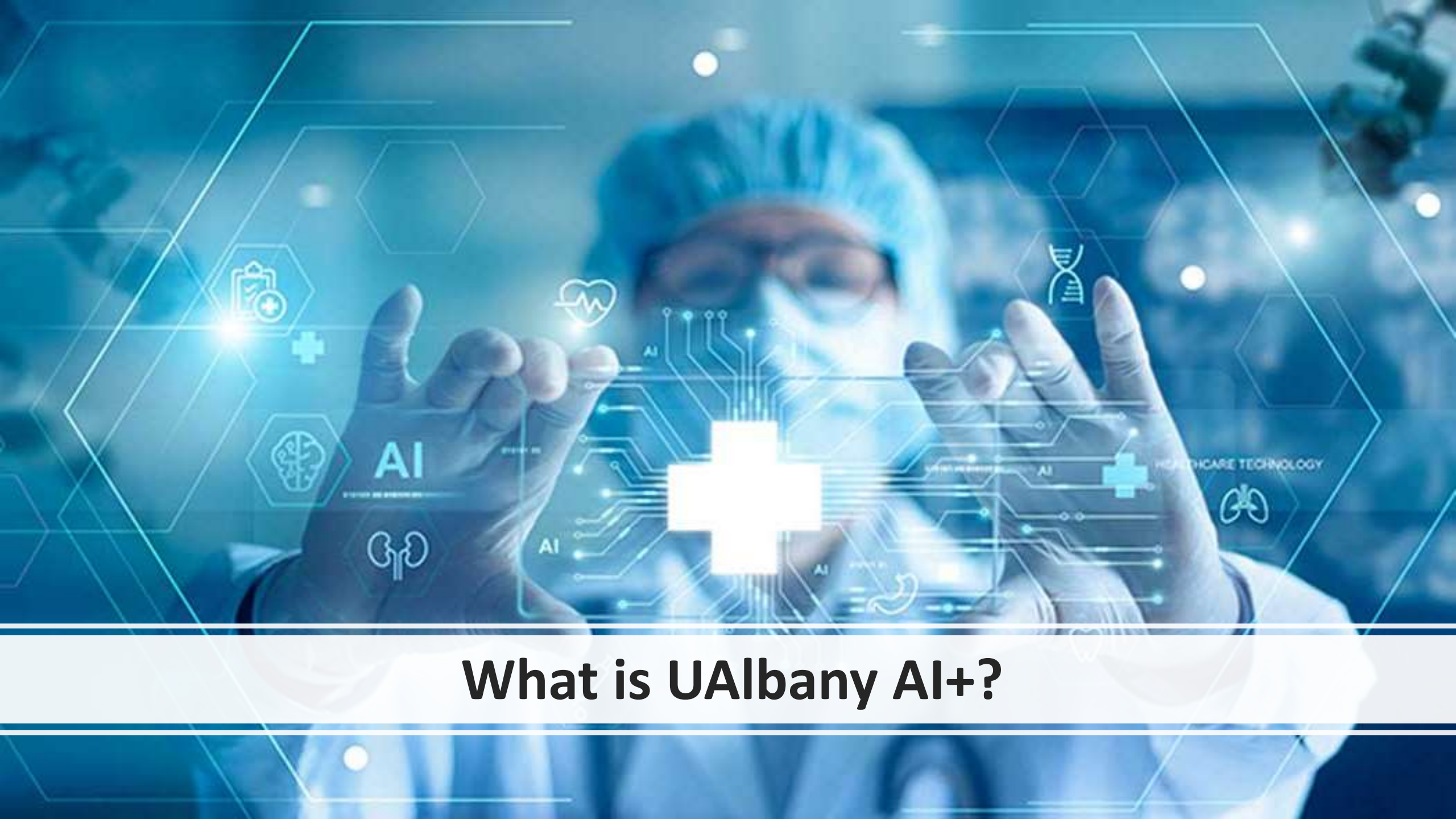
A futuristic blue robotic arm with multiple joints and segments is shown reaching down towards a glowing digital interface. The interface displays a complex pattern of binary code (0s and 1s) in blue and white, with some red highlights. The background is dark and blurry, suggesting a high-tech environment.

Introduction: What is AI?

AI refers to the simulation of human intelligence by machines, particularly computer systems. It includes technologies like machine learning, natural language processing, robotics, etc.



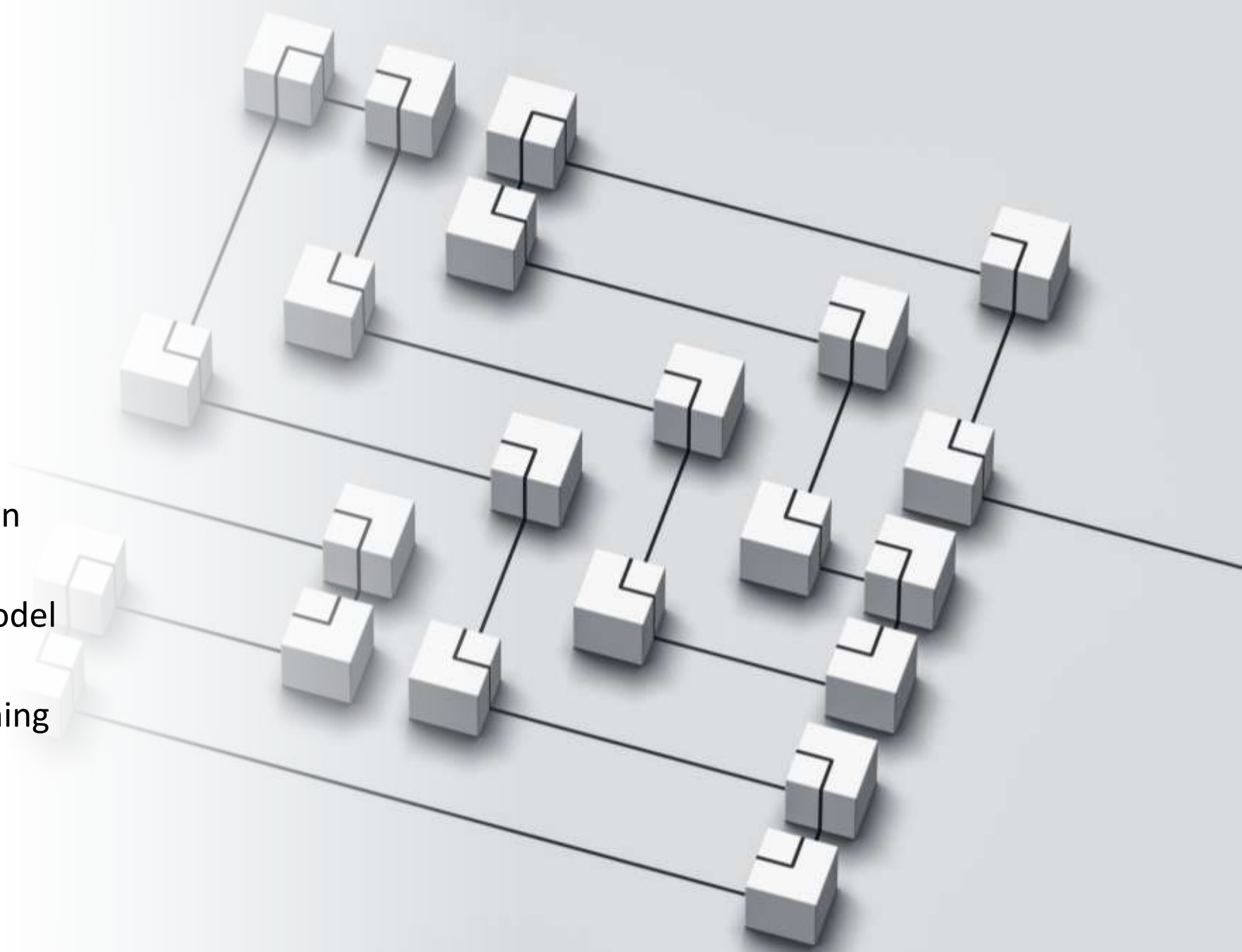
Why AI Matters in Higher Education



What is UAlbany AI+?

AI+ Design & Development

- Data Collection and Preprocessing
- Algorithm Design: Decision Trees, Neural Networks
- Machine Learning and Model Training
- Deployment and Fine-Tuning



Decision Tree Example



**Decision
Tree Uses
Classify or
Predict**

AI+

Decision Tree Exercise



Dr. Hany Elgala

Associate Professor

College of Nanotechnology,
Science, and Engineering

Department of Electrical &
Computer Engineering





AI+ User Interaction

- Personal Assistants (e.g., Siri, Alexa)
- Social Media Algorithms
- AI in Personalized Learning Platforms
- Human-Computer Interaction (HCI): Ensuring user-friendly AI systems.

Dr. Carol Anne Germain

Associate Teaching Professor

Chair of the Information Sciences and
Technology Department

College of Emergency Preparedness,
Homeland Security and Cybersecurity



A hand is pointing at a central box labeled 'AI ETHICS'. This box is surrounded by several other boxes, each containing a white icon on a grey background. The icons represent various concepts: a person with scales (justice/fairness), a gear with a checkmark (process/verification), a hand holding a building (institution/trust), a handshake (agreement), a gear with a dollar sign (economics), a gavel (law), a checkmark in a circle (approval), and a circuit board (technology). The background is a dark blue gradient with a faint grid pattern.

AI ETHICS

AI+ Ethics & Policy

- Bias and Fairness
- Privacy and Data Security
- Accountability and Transparency
- Importance of building trust in AI technologies

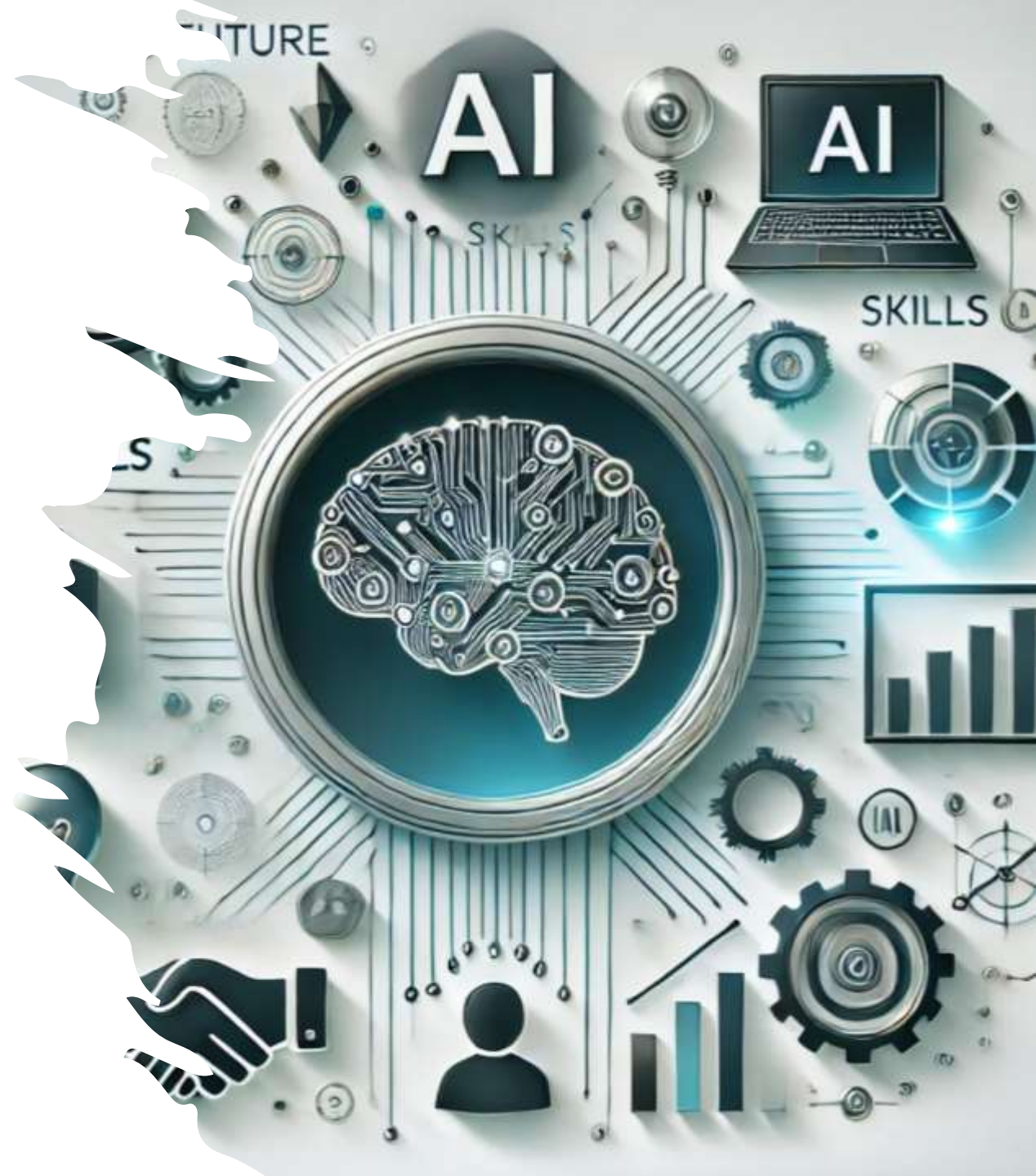
AI+ Ethics & Policy Exercise

Issue:

- What are the ethical implications of AI on employment and the future of work?
 - Automation and skill gaps
 - Reskilling and upskilling
 - Social and economic impact

Not-so hypothetical example for discussion:

- Transcript evaluation AI Tech, students and employees





Dr. Jason D'Cruz

Associate Professor

College of Arts & Sciences
Department of Philosophy
Director of Undergraduate
Studies in Philosophy



AI+ Academics

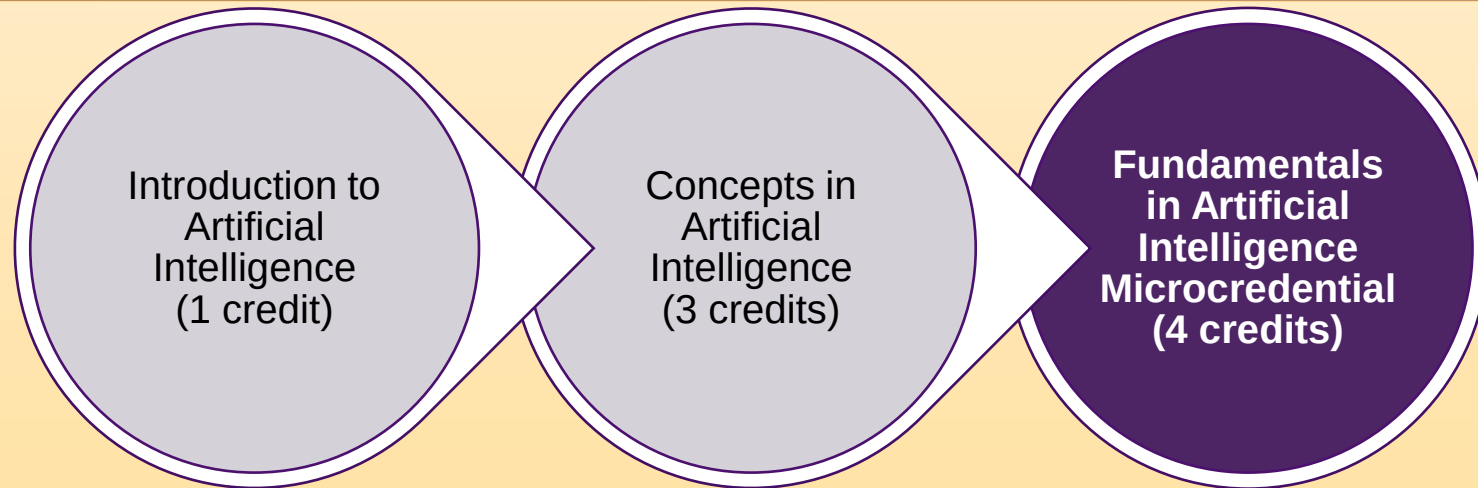
Providing broad access to AI education for all students.



Minors & Academic Pathways



Newest Microcredential: Fundamentals in Artificial Intelligence



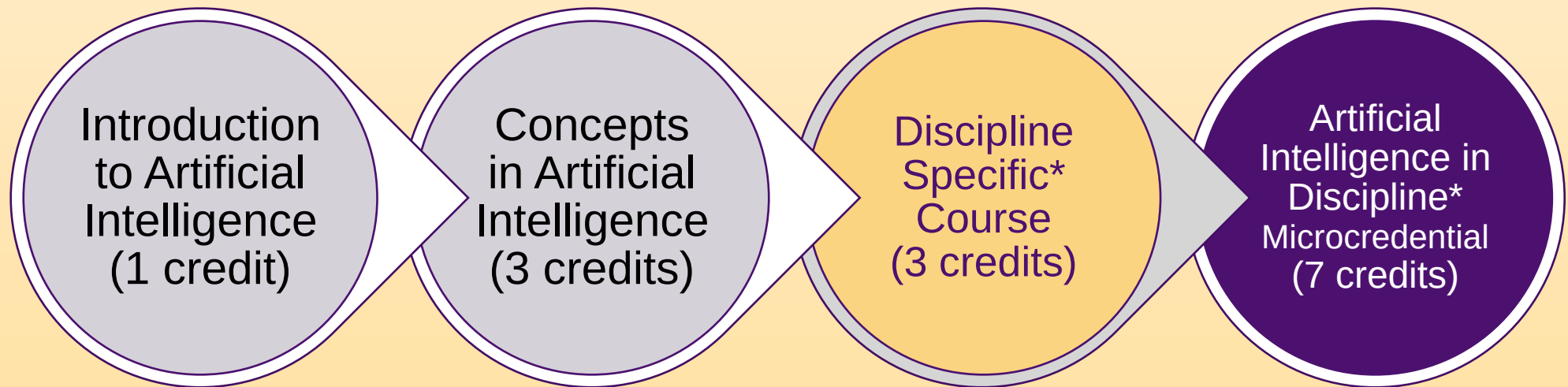
Learning Objectives:

- Technical foundations of artificial intelligence and its implications for modern society
- Intelligent computer systems, machine learning, natural language processing, robotics
- Social, ethical, legal implications, and issues of fairness, bias, and ethics in AI



Microcredentials for AI in specific disciplines (7-credits)

- 200-level courses being developed in all Schools & Colleges
 - Universal learning objectives across the disciplines



*e.g., AI in Engineering; AI in Health; AI in Humanities; AI in Natural Sciences, AI Political Science

AI+ UAlbany

- Comprehensive AI+ initiative
- Interdisciplinary AI Research
- Access to Cutting Edge Technology
- AI Academic Pathways
- Experiential Education in AI-related careers.



UNIVERSITY
AT ALBANY

STATE UNIVERSITY OF NEW YORK



Thank you!



Questions?