EAGER: SaTC AI-Cybersecurity:

Secure and Privacy-Preserving Adaptive Artificial Intelligence Curriculum Development for Cyber Security

Challenge:

- Current materials are not always comprehensive, especially in new areas like adversarial machine learning.
- Content is highly technical, presenting everything all at once can be overwhelming

Solution:

- Modularization: This has various benefits. Makes the curriculum more structured, also allows a "plug and play" format where learners can pick and choose what appeals more to them.
- Modules can also be reused where suitable across various courses.

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Scientific Impact:

Answers to important questions such as whether students who complete self-directed learning modules perform as well on end-of-pathway competency assessment as students who complete instructor-led modules

Broader Impact and Broader Participation:

- Awareness regarding cybersecurity is absolutely essential and often in the national interest.
- Knowing how and when to protect digital assets/systems will save both money, time, as well as create a safer society which safeguards privacy.