

# Identifying Educational Conceptions and Challenges in Cybersecurity and Artificial Intelligence

## Challenge:

To make secure AI systems, AI experts need to know about Cybersecurity – and know when to rely on Cybersecurity expertise

## Method:

Using clinical interviews and focus groups, explored AI students' understanding of cybersecurity and how they approach cybersecurity problems.

## Multi-player model for Cybersecurity Education

We need **Cybersecurity Experts**.  
Not everyone can be one.



**AI Developers and Technology Decision Makers** need to have *awareness* of Cybersecurity and *knowledge* of when to call in an expert.

## Findings:

- AI students often do not apply an adversarial mindset. They trust companies to provide safe and secure projects.
- It is critical to get AI students to recognize when to seek out cybersecurity expertise.

## Broader Impact and Participation:

- Creating safe and secure AI systems requires addressing cybersecurity education needs for multiple players.
- We are defining a set of learning objectives for cybersecurity education.

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