The Art and Science of Cyber Intelligence

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**001 Instructor: This lesson is about the art and science of cyber intelligence.

Human and Machine Teaming

- Human analysts use their analytical acumen alongside the computational power and speed of machines to produce timely, actionable, and accurate intelligence
- **Human** (Analytical Acumen) a science and an Art
  - **Art**: The creativity and imagination that shapes how an analyst addresses a cyber threat
    - Examples: Personal instincts, biases, experiences
  - **Science**: The outlets used to best channel the art
    - Examples: Conceptual frameworks, analytic methodologies, structured analytical techniques
- **Machine**
  - Supervised and unsupervised learning to assist with insider threat detection, anomaly detection, prediction analysis, and report generation

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**002 At the center of the cyber intelligence framework, on this slide, human analysts use their analytical acumen alongside the computational power and speed of machines-- computers, able to automate, process, and increasingly learn through artificial intelligence-- to produce timely, actionable, accurate intelligence, depending on the type of cyber issue being analyzed. As an art, no cyber intel analyst produces intelligence the same way, and the reason for this is that our own personal instincts, biases and experiences, and a host of other nuances impact the creativity and imagination that shapes how we as analysts approach any given cyber issue, and all of that is a good thing. That is what we celebrate in each other.

As a science, these are the outlets to channel that art, such as analytical methodologies or structured analytical techniques, and even other conceptual frameworks.

Notices

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