





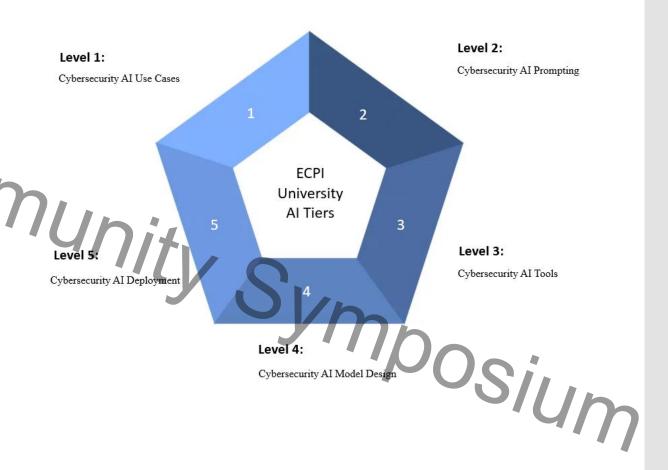


Five-tiered AI learning structure.

Integrated into cybersecurity courses.

Hands-on, practical experience at every level.







Cybersecurity Al Use Cases

Introduces real-world AI applications in cybersecurity.

Covers malware detection, anomaly detection, and ethical considerations.

Integrated into introductory cybersecurity courses.





Cybersecurity Al

Prompting

 Teaches prompt engineering for log analysis and automated incident response,

• Enhances efficiency in handling cybersecurity incidents.

Delivered through specialized learning modules.



Cybersecurity Al Tools

Hands-on practice with AI-enabled security tools.

• Includes AWS Security Hub, CrowdStrike, and SIEM platforms.





2025 CA

Cybersecurity Al Model Design

Guides students in building and training AI models.

Uses Jupyter Notebooks for machine learning applications.

• Incorporated into advanced security analytics courses.



Cybersecurity Al

Deployment

• Offers real-world experience in Al-driven cybersecurity implementation.

• Covers cloud-based and on-premise deployment strategies.

Culminates in capstone projects demonstrating practical application.



Integration into Cybersecurity Courses

Al levels are embedded in core cybersecurity curriculum.

 Ensures students develop AI skills alongside traditional cybersecurity expertise.

Prepares students for real-world cybersecurity challenges.



Alignment with CAE-CD Objectives

Supports CAE-CD knowledge units and competencies.

 Aligns with industry certifications (AWS Cloud Practitioner, CompTIA Security+).

• Ensures students graduate workforce-ready with AI-powered cybersecurity skills.



Workforce Readiness & Industry Demand

Why employers seek AI-skilled cybersecurity professionals.

• Examples of Al-based cybersecurity roles and hiring trends.

• Testimonials from industry partners on the value of Al-trained graduates.



Addressing the Al Cybersecurity Skill Gap

Challenges in integrating AI into cybersecurity programs.

• Solutions ECPI University has implemented.

• Future improvements and curriculum advancements.



Future Directions in Al & Cybersecurity

Emerging Al trends in cybersecurity.

Potential research opportunities and advancements.

• Expanding AI education to address future industry needs.



Call for Collaboration

Engaging with the CAE-CD community.

Opportunities for research, industry partnerships, and curriculum • Open invitation for feedback and contributions. enhancement.



Conclusion &

Q&A

• Recap of ECPI's Al-driven cybersecurity curriculum.

• How this initiative supports the cybersecurity workforce.

• Open the floor for audience questions and discussion.