

# CYBERSECURITY AND AI STRATEGY CERTIFICATE

## Program Description

As AI technologies rapidly transform the cybersecurity landscape, organizations face unprecedented challenges in protecting their digital assets while leveraging AI's potential for enhanced defense capabilities. This critical intersection of AI and cybersecurity demands new approaches to strategic risk management.

Throughout this certificate program, you will explore the transformative impact of AI on both cybersecurity and cybercrime, developing crucial skills to navigate this rapidly evolving landscape. Beginning with a foundational examination of AI's risks, rewards, and responsibilities, you'll evaluate its implications for both individuals and organizations. The program covers specific AI applications and challenges through the lens of governance and policy, including an in-depth analysis of deepfake technology's benefits and dangers related to ransomware and cyber extortion.

Through practical case studies and expert insights, you will examine AI in the cybersecurity landscape and consider the responsibilities that come with its usage. You'll conclude by exploring AI's current and future impact on critical infrastructure and national security, including emerging threats and defensive capabilities. This forward-looking approach ensures you're prepared to adapt to AI's complexities, anticipate future challenges, and contribute to the development of effective security practices and policies in your organization. No prior experience with AI or technical expertise is required to be successful in this program.

By participating in the program, you'll gain one year of access to Symposium! These dynamic, highly interactive virtual Zoom sessions are designed to foster collaboration and networking with fellow professionals. Led by expert facilitators and occasionally featuring special guests, each multi-day event dives into the most pressing topics in AI. You can participate in as many sessions as you like throughout the year. While attendance is encouraged, it's not required.

To get the most out of your experience, it is recommended that you begin Cybersecurity and AI Strategy with the first course in the series, AI Risk and Opportunity.

## Key Takeaways

- Evaluate AI risks, rewards, and responsibilities for individuals and/or organizations
- Evaluate benefits and dangers of deepfake technology
- Examine the impact of cybercrime and understand the options for mitigating and responding to cybercrime crises
- Analyze the context, impact, and best practices related to ransomware and cyber extortion attacks
- Anticipate the current and future impact of AI on critical infrastructure and national security

## What You'll Earn

- Cybersecurity and AI Strategy Certificate from Cornell Jeb E. Brooks School of Public Policy
- 70 Professional Development Hours (7 CEUs)

## Who Should Enroll

- C-suite executives, board members, and policy makers
- General counsel and legal advisors
- Directors and VPs in cybersecurity, information security, and crisis management
- AI engineers and developers
- Data scientists and analysts
- Business strategists and consultants
- Compliance officers
- Infrastructure and regulatory professionals in public and private sectors
- Anyone seeking to understand cybersecurity fundamentals

## Courses

Code	Title	Hours
eCornell BRKS181	AI Risk and Opportunity	0
eCornell BRKS182	Deepfakes	0
eCornell BRKS183	Cybercrime	0
eCornell BRKS184	Ransomware and Cyber Extortion	0
eCornell BRKS185	Critical Infrastructure, AI, and Cybersecurity	0