GTC Transforming Emerging Economies

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Cyber Threat Intelligence: AI, Big Data, and Predictive Security

COURSE OVERVIEW

This course explores how cutting-edge technologies are reshaping the fight against cybercrime and advanced digital threats. It provides participants with a strategic and technical understanding of how artificial intelligence, big data analytics and predictive modeling are applied to detect, analyze, and mitigate evolving cyber risks. Through a blend of factual case studies, simulations and practical exercises, participants will learn to harness data driven intelligence and automated decision making to enhance organizational resilience against emerging and sophisticated cyber-attacks.

WHO SHOULD ATTEND?

This course is tailored for cyber security professionals, IT managers, security analysts, risk managers and decision makers seeking to deepen their expertise in cyber threat intelligence. It is also valuable for professionals in government, law enforcement, finance, and critical infrastructure who require advanced strategies to anticipate and counter cyber threats in dynamic digital environments.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand foundational concepts and terminology of cyber threat intelligence (CTI).
- Apply AI and big data techniques to collect and analyze cyber threat data.
- Utilize predictive security models to anticipate and mitigate emerging cyber threats.
- Employ tactical, operational, and strategic CTI frameworks to enhance defences.
- Integrate diverse intelligence sources, including OSINT, for comprehensive threat analysis.
- Develop and communicate actionable threat intelligence reports to support decision-making.
- Adhere to ethical, legal, and organizational standards in intelligence gathering and dissemination.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- The fundamentals and importance of cyber threat intelligence (CTI).
- How AI and big data enhance threat detection and analysis.
- Predictive security techniques to anticipate cyber-attacks.
- Methods for collecting and processing diverse threat intelligence data.
- Use of Threat Intelligence Platforms (TIPs) and automation tools.
- Collaboration and information sharing best practices.
- Developing actionable intelligence reports for effective cybersecurity decision-making.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.
1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded