Fast Lane

AI+ Ethical Hacker (AIEH)

ID AIEH **Price** on request **Duration** 5 days

Prerequisites

- Programming Proficiency: Knowledge of Python, Java, C++,etc for automation and scripting.
- Networking Fundamentals: Understanding of networking protocols, subnetting, firewalls, and routing.
- Cybersecurity Basics: Familiarity with fundamental cybersecurity concepts, including encryption, authentication, access controls, and security protocols
- Operating Systems Knowledge: Proficiency in using Windows and Linux operating systems.
- Machine Learning Basics: Understanding of machine learning concepts, algorithms, and basic implementation.
- Web Technologies: Understanding of web technologies, including HTTP/HTTPS protocols, and web servers.

Course Objectives

- **AI-Integrated Cybersecurity Techniques**
  - Learners will develop the ability to integrate AI tools and technologies into cybersecurity practices. This includes using AI for ethical hacking tasks such as reconnaissance, vulnerability assessments, penetration testing, and incident response.
- **Threat Analysis and Anomaly Detection**
  - Students will gain skills in applying machine learning algorithms to detect unusual patterns and behaviors that indicate potential security threats. This skill is crucial for preemptively identifying and mitigating risks before.
- **AI for Identity and Access Management (IAM)**
  - Learners will understand how to apply AI to enhance IAM systems, crucial for maintaining secure access to resources within an organization. This involves using AI to improve authentication processes and manage user permissions more dynamically and securely.
- **Automated Security Protocol Optimization**
  - Students will be equipped to utilize AI to dynamically adjust and optimize security protocols based on real-time data analysis and threat assessment. Learners will explore how AI algorithms can predict and respond to potential security breaches by automatically tweaking firewall rules, security configurations, and other protective measures.

Training Centres worldwide

Fast Lane Institute for Knowledge Transfer (Switzerland) AG

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

info@flane.ch, https://www.flane.ch