HARNESSING ARTIFICIAL INTELLIGENCE FOR PENETRATION TESTING

Exploring the Course Creation Process

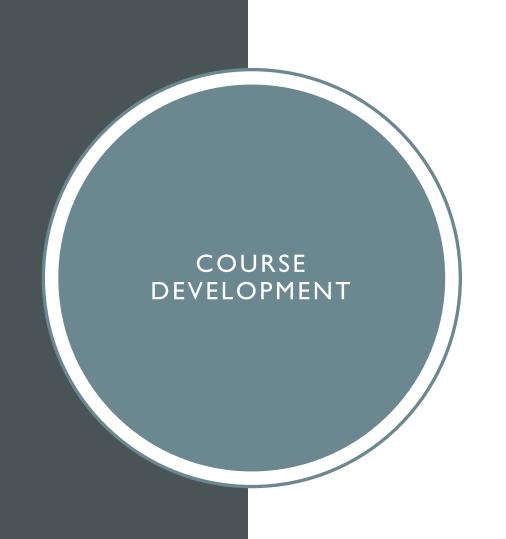
Kiera Conway

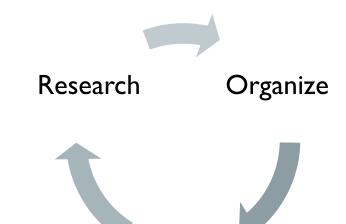
HARNESSING
ARTIFICIAL
INTELLIGENCE
FOR
PENETRATION
TESTING

- More Frequent and Thorough Assessments
- Scalable Solutions
- Optimize Limited Human Resources



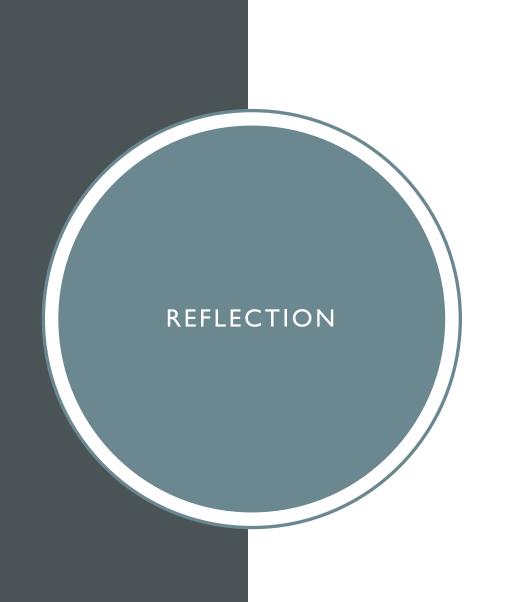
Introduction	Introduces course and fundamental terms and explains importance of AI in penetration testing
Gathering Information	Explores harnessing AI to transform the first phase stimulates creative thinking on real-world application challenges
3-1 Scanning (Manual)	Delves into manual scanning methods, types, and tools, examines their limitation, and provides hands-on learning options
3-2 Scanning (AI)	Defines AI and its advantages in scanning and raises an ethical question about autonomous AI actions
Exploitation (Manual)	Focuses on traditional and complex manual exploit methods, types, and tools, examines their limitations, and provides hands-on learning options
Exploitation (AI)	Contrasts manual and AI exploit methods, introduces deep- learning techniques, and stimulates critical thinking about AI model training
Post-Exploitation (Manual)	Covers manual post-exploit methods, types, and tools, examines their limitation, and provides hands-on learning options
Fost-Exploitation (AI)	Examines Al's integration in post-exploitation phases, discusses advantages and limitations, and poses a forward-looking research question about RL agents





Refine

- Challenges
 - Speaking Seamlessly
 - Balancing Depth and Accessibility



- Academically Demanding
- Personal Growth
- Refocus Research, Time, and Approach

THANK YOU

Introduction	https://clipchamp.com/watch/8Ga8P3d49mW
Gathering Information	https://clipchamp.com/watch/zNgpqzh6tdW
3-1 Scanning (Manual)	https://clipchamp.com/watch/DkiiipNAf27
3-2 Scanning (AI)	https://clipchamp.com/watch/CIG4PTorwYu
4-1 Exploitation (Manual)	https://clipchamp.com/watch/VoIN8MhSTYe
Exploitation (AI)	https://clipchamp.com/watch/epDzlpNNYsq
5-1 Post-Exploitation (Manual)	https://clipchamp.com/watch/tZg1U3Z4nM5
5-2 Post-Exploitation (AI)	https://clipchamp.com/watch/0ycz6fR8jbX