

1. Exercises, Quizzes, Flashcards & Glossary

Number of Questions

2. Expert Instructor-Led Training

3. ADA Compliant & JAWS Compatible Platform

4. State of the Art Educator Tools

5. Award Winning Learning Platform (LMS)

6. Chapter & Lessons

Syllabus

Chapter 1: Preface

Chapter 2: Adversarial Machine Learning

Chapter 3: Adversarial Deep Learning

Chapter 4: Adversarial Attack Surfaces

Chapter 5: Game Theoretical Adversarial Deep Learning

Chapter 6: Adversarial Defense Mechanisms for Supervised Learning

Chapter 7: Physical World Adversarial Attacks on Images and Texts

Chapter 8: Adversarial Perturbation for Privacy Preservation

Videos and How To

7. Performance Based labs

Lab Tasks

Here's what you get

1.  Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.

56
EXERCISES

2. Quiz

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.

150
QUIZ

3. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.

70
FLASHCARDS

4. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



5. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

6. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

7. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

8. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**

1. Best Postsecondary Learning Solution

- **2015**

1. Best Education Solution
2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**

1. Best Virtual Learning Solution
2. Best Education Cloud-based Solution
3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution

6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform
2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

- **2019**

1. Best Virtual Learning Solution
2. Best Content Authoring Development or Curation Solution
3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

9. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Preface

Chapter 2: Adversarial Machine Learning

- Adversarial Learning Frameworks
- Adversarial Security Mechanisms
- Stochastic Game Illustration in Adversarial Deep Learning

Chapter 3: Adversarial Deep Learning

- Learning Curve Analysis for Supervised Machine Learning
- Adversarial Loss Functions for Discriminative Learning
- Adversarial Examples in Deep Networks
- Adversarial Examples for Misleading Classifiers
- Generative Adversarial Networks
- Generative Adversarial Networks for Adversarial Learning
- Transfer Learning for Domain Adaptation

Chapter 4: Adversarial Attack Surfaces

- Security and Privacy in Adversarial Learning
- Feature Weighting Attacks
- Poisoning Support Vector Machines
- Robust Classifier Ensembles
- Robust Clustering Models
- Robust Feature Selection Models
- Robust Anomaly Detection Models
- Robust Task Relationship Models
- Robust Regression Models
- Adversarial Machine Learning in Cybersecurity

Chapter 5: Game Theoretical Adversarial Deep Learning

- Game Theoretical Learning Models
- Game Theoretical Adversarial Learning
- Game Theoretical Adversarial Deep Learning
- Stochastic Games in Predictive Modeling
- Robust Game Theory in Adversarial Learning Games

Chapter 6: Adversarial Defense Mechanisms for Supervised Learning

- Securing Classifiers Against Feature Attacks
- Adversarial Classification Tasks with Regularizers
- Adversarial Reinforcement Learning
- Computational Optimization Algorithms for Game Theoretical Adversarial Learning
- Defense Mechanisms in Adversarial Machine Learning

Chapter 7: Physical World Adversarial Attacks on Images and Texts

- Adversarial Attacks on Images
- Adversarial Attacks on Texts
- Spam Filtering

Chapter 8: Adversarial Perturbation for Privacy Preservation

- Adversarial Perturbation for Privacy Preservation

Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

7

VIDEOS

06

MINUTES

10. Performance Based Labs

uCertify's performance-based labs are simulators that provides virtual environment. Labs deliver hands on experience with minimal risk and thus replace expensive physical labs. uCertify Labs are cloud-based, device-enabled and can be easily integrated with an LMS. Features of uCertify labs:

- Provide hands-on experience in a safe, online environment
- Labs simulate real world, hardware, software & CLI environment
- Flexible and inexpensive alternative to physical Labs
- Comes with well-organized component library for every task
- Highly interactive - learn by doing
- Explanations and remediation available
- Videos on how to perform

Lab Tasks

- Exploring the Adversarial Learning Framework
- Understanding Adversarial Examples
- Understanding a Black-Box Attack
- Exploring Adversarial Attack Surfaces
- Analyzing Game-Theoretical Adversarial Interaction
- Understanding Adversarial Defense Mechanisms
- Understanding Spam Filtering
- Understanding Adversarial Perturbation

Here's what you get



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