程序代写代做 CS编程辅导

Unit

WeChat: cstutorcs

FIT3183 - Malicious AI and dark side security

Assignment Project Exam Help

Email: tutorcs@163.com

Overview

QQ: 749389476

https://tutorcs.com

In this unit you will learn first-hand some of the required skills of a Chief Security Officer. You will be exposed to the latest technologies deployed by attackers against AI and security, and mechanisms to counter these malicious activities. This unit gives you the opportunity to engage in role-playing case studies wherein you will be required to participate against other students in a security warfare: security vs anti-security technologies, such as, deepfakes vs anti-deepfakes, forensics vs counter forensics.

Faculty:
Faculty of Information Technology

Owning organisational unit:
Faculty of Information Technology

Study level:
Undergraduate

SCA band:
2

EFTSL:
0.125

Credit points:
6

Open to exchange or study abroad students?

Offerings

S2-01-MALAYSIA-ON-

Location: Malaysia

Teaching period: Second semester

Attendance mode: On-campus

Requisites

Prerequisite

→ FIT1045	6 CP
Introduction to programming	

→ FIT2093	6 CP
Introduction to cyber security	

Contacts

Chief Examiner(s)

Professor Raphael Phan

Email: Raphael.Phan@monash.edu

Offering(s):

- Applies to all

Learning outcomes

On successful completion of this unit, you should be able to:

1. identify and evaluate malicious technologies deployed by attackers against AI and security such as adversarial machine learning, deepfakes, ransomware, kleptography, cryptovirology, covert exfiltration, anti-forensics, subversion.

2. implement counter anti-security technologies to combat the anti-security techniques deployed by attackers.

3. design and deploy security or anti-security techniques in real-world situations.

4. critically assess the level of security offered by existing AI and security systems.

5. explain the ethical principles between the dark side and cybersecurity for social good.

Assessment summary

This unit has threshold mark hurdles. You must achieve at least 45% of the available marks in the final scheduled assessment, at least 45% in total for in-semester assessments, and an overall unit mark of 50% or more to be able to pass the unit. If you do not achieve the threshold mark, you will receive a fail grade (NH) and a maximum mark of 45 for the unit.

Assessment

Assignment Milestone 1

Value %: 2

Hurdle type: Threshold

Hurdle description:

This task is part of the in-semester assessment hurdle.

Assignment Milestone 2

Value %: 8

Hurdle type: Threshold

Hurdle description:

This task is part of the in-semester assessment hurdle.

Assignment Milestone 3

Value %: 20

Hurdle type: Threshold

Hurdle description:

This task is part of the in-semester assessment hurdle.

Assignment Milestone 4

Value %: 10

Hurdle type: Threshold

Hurdle description:

This task is part of the in-semester assessment hurdle.

Scheduled final assessment (2 hours and 10 mins)

Value %: 60

Hurdle type: Threshold

Hurdle description:
The scheduled final ass...

Scheduled teaching activities

Laboratories

Total hours: 24 hours

Offerings:

- Applies to all offerings

Lectures

Total hours: 24 hours

Offerings:

- Applies to all offerings

Workload requirements

Workload

Minimum total expected workload to achieve the learning outcomes for this unit is 144 hours per semester typically comprising a mixture of scheduled online and face to face learning activities and independent study. Independent study may include associated reading and preparation for scheduled teaching activities.

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