



Applications of AI Cyber Security: Challenges and Opportunities

A Cyberskill Exercise

UWF Florida Cybersecurity Training Program
Offered by the University of West Florida Center for Cybersecurity

Course Overview

Table Top Exercise Date: Sept 26, 2024

Tabletop Exercise Time: 8 am – 4 pm CT with break from 11:30 am – 12:30 pm CT
(9 am – 5 pm ET with break from 12:30 – 1:30 pm ET)

Duration: 1 day

Instructional Hours: 7 contact hours

Delivery Format: Synchronous online (courses)

Target Audience: IT and Cybersecurity practitioners or staff;

Required Prerequisites / Background: Students from any background is welcome, some prior knowledge of Cyber Security and coding useful but not essential;

CEUs: 1.5, **CPEs:** 18

Course Instructor(s):

Instructor	Email
Dr. Hossain Shahriar	hshahriar@uwf.edu

Course Description

This exercise will give an overview of the application of Artificial Intelligence in addressing cybersecurity threats and vulnerabilities. It covers basics of machine learning, and applications to address cybersecurity related problems. The course will provide an overview of regulatory frameworks that are being evolved to manage AI technologies and their applications to mitigate various risks and anomalies. Hands on exercises will include Google Colab-based development of basic AI application for cybersecurity. This exercise uses a combination of lectures, discussions, and exercises in a synchronous (live online instruction) modality via zoom.