Applications of AI Cyber Security: Challenges and Opportunities
CyberSkills Exercise

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

Course Overview

Cyber Skills Exercise Date: February 8, 2024

Cyber Skills 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 Descriptio`n

This course will give an overview of the artificial intelligence (AI), and application in addressing cybersecurity threats and vulnerabilities. It will include history of AI, basic machine learning approaches, large language model (LLM)-based tool to address related problems. Learners will be introduced with responsible usage of AI covering biasness and fairness. The course will also provide an overview of regulatory frameworks and various risks associated with AI and LLM technologies. Hands on exercises will include Google Colab-based development of basic AI application to detect cybersecurity problems. This course uses a combination of lectures, discussions, and hands-on activities in a synchronous (live online instruction) modality via zoom.

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