

# **AI in Cybersecurity**

**Modality: On Demand**

**Duration: 1 Hour**

## **About this Course:**

AI is changing cybersecurity at a fast pace and the only way to stay ahead of the fast pace is of changing AI and Cybersecurity practices is to continuously keep learning. Few ways in which AI is changing Cybersecurity:

1. "How AI is changing Malware",
2. "How AI is changing Intrusion Detection" and
3. "How AI is changing Pen Testing"

## **Course Objectives:**

- How AI is changing Malware
- Machine learning is used to detect unknown malware
- New industry norm
- ML can be used to create evasive malware
- How AI is changing Intrusion Detection
- AI allows to detect unknown new attacks, anomalous behavior
- Can be worked into an IDS, SIEM
- How AI is changing Pen Testing
- AI can imitate humans, e.g., getting past CAPTCHAs, deepfake, fake reviews, voice transfer
- Can also empower mechanical pen testing, e.g., RL-agent for metasploit in DeepExploit

## **Audience:**

- Anyone interested in AI, Cybersecurity and Datascience

## **Prerequisites:**

- There are no prerequisites for this course.

## **Course Outline:**

- Course Introduction
- AI allows to detect unknown new attacks, anomalous behavior
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- Can also empower mechanical pen testing, e.g., RL-agent for metasploit in DeepExploit