

**ONLINE & REGIONAL COURSE** 

# CONCEPTUAL DVERVIEW OF MACHINE LEARNING

Understand machine learning algorithms and apply them to security problems.

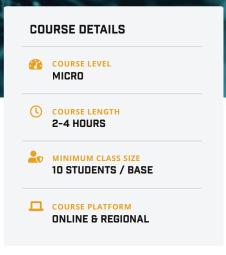
# **COURSE OVERVIEW**

Machine Learning (ML) is rapidly becoming one of the most valuable tools in a cyber warrior's toolkit. However, it can be difficult to start in ML or apply it to security problems. This workshop offers a math-free overview of machine learning algorithms as well as their application to security problems. Additionally we will present several use cases of machine learning as applied to security problems.



# BY THE END OF THIS MODULE, YOU'LL BE ABLE TO:

- Understand the difference between supervised and unsupervised learning
- Understand the different problem types that are well suited to machine learning
- Have a conceptual understanding of several machine learning algorithms including K-NN, Random Forests and DBSCAN
- Understand the overall process for building and deploying a machine learning model



#### THE FINE PRINT

## **Course Size Requirements**

The Base level includes 10 students. Level up to unlimited students for \$1,000 more. Head count must be locked in at the time of contract.

#### **US Travel / Incidental Cost**

// Virtual courses do not incur travel/incidental costs.

## **Course Format**

// GTK typically uses Google Meets for virtual courses, but can use any service with advanced notice.

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