

# GIAC Machine Learning Engineer



# Online Course



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## Course Modules

### 1. Anomaly Detection and Optimization

Autoencoders and how they are used in anomaly detection problems. The candidate will also demonstrate a fundamental understanding of how genetic algorithms are applied to automate the optimization of neural networks.

### 2. Clustering

Machine learning concepts such as clustering, and unsupervised machine learning.

### 3. Convolutional Neural Networks

How convolutional neural networks are used to solve classification problems as well as for predictive analytics.

### 4. Data Acquisition

Data acquisition, cleaning, and manipulation terminology and the steps necessary to prepare threat data for additional threat hunting analysis. The candidate will demonstrate familiarity with accessing data from SQL, document stores, and by web scraping.





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## 5.Leveraging Python

Python scripting language and modules such as NumPy, Pandas, and TensorFlow and how to leverage them to extract, visualize, transform, and load data.

## 6.Neural Networks

Fundamental understanding of deep learning concepts using neural networks for supervised machine learning. Candidates will demonstrate an understanding of loss and error functions, vectors, matrices and tensors.

## 7. Probability and Frequency

Fundamental understanding of probability theory, inference, the Bayes theorem and Fourier series.

## 8.Regressions

Fundamental understanding of regressions and their application

## 9.Statistics Fundamentals

Statistics & how it is applied to data science for threat hunting use

## 10.Supervised Learning

Support vector classifiers, kernel functions, support vector machine

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REMOTELY!!**

The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.



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