



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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# Supervised Learning: Classification

**CODE:**      **LENGTH:**      **PRICE:**

W7103G      11.04 Hours      \$791.00

## Description

This course introduces you to one of the main types of modeling families of supervised Machine Learning: Classification. You will learn how to train predictive models to classify categorical outcomes and how to use error metrics to compare across different models. The hands-on section of this course focuses on using best practices for classification, including train and test splits, and handling data sets with unbalanced classes.

**IBM Customers and Sellers:** If you are interested in this course, consider purchasing it as part of one of these Individual or Enterprise Subscriptions:

- IBM Learning for Data and AI Individual Subscription ([SUBR022G](#))
- IBM Learning for Data and AI Enterprise Subscription ([SUBR004G](#))
- IBM Learning Individual Subscription with Red Hat Learning Services ([SUBR023G](#))

## Objectives

By the end of this course you should be able to:

- Differentiate uses and applications of classification and classification ensembles.
- Describe and use logistic regression models.
- Describe and use decision tree and tree-ensemble models.
- Describe and use other ensemble methods for classification.
- Use a variety of error metrics to compare and select the classification model that best suits your data.
- Use oversampling and undersampling as techniques to handle unbalanced classes in a data set.

## Audience

This course targets aspiring data scientists interested in acquiring hands-on experience with Supervised Machine Learning Classification techniques in a business setting.

## Prerequisites

To make the most out of this course, you should have familiarity with programming on a Python development environment, as well as fundamental understanding of Data Cleaning, Exploratory Data Analysis, Calculus, Linear Algebra, Probability, and Statistics.

## Programme

1. Logistic Regression  
2. K Nearest Neighbors  
3. Support Vector Machines  
4. Decision Trees  
5. Ensemble Models  
6. Modeling Unbalanced Classes

## Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
17 Apr 2023			English	Self Paced Training		\$791.00

## Additional Information

This training is also available as onsite training. [Please contact us to find out more.](#)