

# BeVera

COURSE OUTLINE

## Feature Engineering and Selection

### Course Overview

The Feature Engineering and Selection course gives attendees the ability to pre-process data to get the best out of Machine Learning models. Attendees will learn how feature selection techniques can be used to find predictors that contain the most valuable information. When you're finished with this course, you will have the knowledge to identify feature engineering techniques for your models.

### Intended Audience

This Feature Engineering and Selection course is intended for individuals who perform computational analysis and want to improve input features to better train their models.

### Prerequisites

Attendees must be proficient in Exploratory Data Analysis using R and RStudio on their laptops. R and RStudio can be downloaded at:

[www.r-project.org](http://www.r-project.org)

[www.rstudio.com](http://www.rstudio.com)

### Learning Objective

- Explore dimensional reduction methods with special interest on Principal Component Analysis
- Conduct feature extraction using Principal Component Analysis
- Investigate and identify variable relationships within the data (e.g., missing data, skewness, and outliers)
- Conduct data transformation techniques to identify and refine optimal model inputs, such as:
  - Normalize skewed data
  - Discretize continuous data
  - Convert numerical data to categorical data
  - Perform missing value imputation



For scheduling and/or assistance  
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