

**Module Title** : **Course PAI10 - SAP Predictive Analytics**

**Duration** : **5 days**

## Goals

This course will prepare you to:

- Understand predictive analytics concepts and approaches, as well as how they are implemented within the context of the SAP Predictive Analytics tool.
- Develop the ability to use Predictive Analytics within a Data Science project context.
- Be able to use automated analytics capabilities to build, score and implement classification, regression and time-series models.
- Use Data Manager to prepare and manipulate data to support modelling.
- Understand and implement Predictive Factory to import, build and schedule models.
- Build Social and Recommendation models
- Introduction to Expert Analytics and the Predictive Analytics Library (PAL)

## Audience

- Application Consultant
- Business Analyst
- Program / Project Manager
- System Administrator
- Technology Consultant

## Prerequisites

Essential

- None

Recommended

- Basic statistical skills and a background in Business Analytics and Data Modelling

## Course based on software release

SAP Predictive Analytics 3.1

## Content

- Introduction to the course
  - Welcome introduction and agenda
- Introduction to Predictive Analytics
  - What is Predictive Analytics
  - Introduction to SAP Predictive Analytics
  - Predictive Analytics projects and CRISP-DM
  - SAP Use Case examples
- Foundations of Automated Analytics
  - Introduction to SAP Automated Analytics
  - Foundations
  - Data Encoding
  - Model Building
- Classification Modeling with Automated Analytics
  - Training a classification model
  - Understanding model output
- Classification modelling with automated Analytics
  - Applying a model
  - Understanding model output
  - Understanding the confusion matrix
  - Improving Predictive Power and Prediction Confidence
  - Reducing number of variables
  - Data deviation testing
  - Advanced Functionality
  - Advanced Data Description Functionality
- Regression Modeling with Automated Analytics
  - Training a regression model
  - Understanding model output
- Clustering with Automated Analytics
  - Introduction to clustering and segmentation
  - Target or no target?
  - Building a segmentation
  - Model debriefing

- Model apply
- Segmented models
  
- Time Series with Automated Analytics
  - Training a time series
  
- Data Manager
  - Data Preparation
  - Data Manipulation
  - Data Manager process and benefits
  
- Predictive Factory
  - Introduction
  - Setup
  - Building a model in Predictive Factory
  - Importing models
  - Scheduling models
  - Segmented modelling
  
- Social and Recommendation
  - Social
  - Recommendation
  
- SAP Predictive Analytics Expert
  - Expert Analytics
  
- SAP Cloud Platform Predictive Services
  - SAP Cloud Platform Predictive Services
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