

SACPR1

SAP Analytics Cloud: Predictive Functions

COURSE OUTLINE

Course Version: 31

Course Duration:

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Typographic Conventions

American English is the standard used in this handbook.

The following typographic conventions are also used.

This information is displayed in the instructor's presentation	
Demonstration	
Procedure	
Warning or Caution	
Hint	
Related or Additional Information	
Facilitated Discussion	
User interface control	<i>Example text</i>
Window title	<i>Example text</i>

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Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

- Project Stakeholder
- Application Consultant
- Technology Consultant
- Data Consultant
- Business Analyst
- Data Scientist

Lesson 1: Introducing Data Science and Predictive Analysis

Lesson Objectives

After completing this lesson, you will be able to:

- Explain how SAC uses machine learning technology for predictive analysis to help discover deep insights, simplify access to critical information, and empower informed decision making
- Explain some SAC predictive use cases

Lesson 1: Exploring Smart Features

Lesson Objectives

After completing this lesson, you will be able to:

- Use Smart Assist features
- Introduce features of Smart Predict
- Demonstrate some of the Smart features available in SAC.
- Demonstrate Smart Discovery

Lesson 1: Analyzing Predictive Scenarios

Lesson Objectives

After completing this lesson, you will be able to:

- Describe Predictive Scenarios
- Explain the different data types (nominal, ordinal and continuous, storage formats) and the roles of variables in a model.
- Explain the fundamentals of SAC automated data encoding and how missing values and outliers are dealt with
- Explain how to check and correct the column details

Lesson 2: Examining Augmented Analytics

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the data structure required for Smart Predict use cases (classification, regression, time series, and segmented time series)
- Describe the fundamentals of consuming the predictive output of your analysis in SAC
- Explain some useful background on predictive modeling

Lesson 3: Classification Models

Lesson Objectives

After completing this lesson, you will be able to:

- Introduce classification analysis in SAC Smart Predict
- Explain how to operationalize a classification model in Smart Predict
- Connect to a live data source, build a classification model, examine the output of the model and apply it

Lesson 4: Time Series Model

Lesson Objectives

After completing this lesson, you will be able to:

- Introduce time series models in SAC Smart Predict.
- Build a time series model using SAC Smart Predict
- Explain how to analyse and understand the results of a time series model in SAC Smart Predict
- Apply time series models in SAC Smart Predict
- Build a time series model and examine the output of the model

Lesson 5: Regression Model

Lesson Objectives

After completing this lesson, you will be able to:

- Build a Regression Model
- Analyze Results of a Regression Model
- Apply a Regression Model

Lesson 1: R Visualizations

Lesson Objectives

After completing this lesson, you will be able to:

- Consume the output of your predictive models in an SAC story.
- Use R in SAC
- Create a simple R visualization in SAC

Lesson 1: Combining Augmented Analytics with Planning

Lesson Objectives

After completing this lesson, you will be able to:

- Explain how SAC combines augmented analytics time series forecasting models with planning.
- Demonstrate how time series modeling can integrate with planning in SAC

Lesson 1: Project Framework Overview

Lesson Objectives

After completing this lesson, you will be able to:

- Describe CRISP-DM (the most commonly used project planning framework).

Lesson 1: Classification, Regression, Time series and Visualization

Lesson Objectives

After completing this lesson, you will be able to:

- Summarize Classification, Regression, Time series and Visualization
- List some of the resources that are available for SAP Analytics Cloud and Smart Predict.