

[SAS-POS134]: SAS Viya and Python Integration for Machine Learning

Length : 1 Day
Delivery Method : Instructor-led (Classroom)

Course Overview

In this course, you learn to use the Python API to take control of SAS Cloud Analytic Services (CAS) actions from Jupyter Notebook. You learn to upload data into the in-memory distributed environment, analyze data, and create predictive models in CAS using familiar Python functionality via the SWAT (SAS Wrapper for Analytics Transfer) package. You then learn to download results to the client and use native Python syntax to compare models.

Audience Profile

Python users who want to take advantage of SAS Viya distributed analytics for fast and efficient modeling

At Course Completion

Learn how to

- Use the Python API in SAS Viya.
- Submit CAS actions from Python.
- Manage, alter, and prepare data on the CAS server.
- Implement and compare machine learning models on the CAS server.
- Move data between the client and server.
- Use Python syntax to wrap up CAS actions with functions and loops.
- Promote data to persist in memory.

Pre-Requisites

Before taking this class, you should have experience writing Python programs for data analytics. There are no SAS prerequisites.

This course addresses SAS Viya, SAS Visual Data Mining and Machine Learning software.

Course Outline

Module 1: SAS Viya and Open Source Integration

Lessons

- SAS Viya and Cloud Analytic Services (CAS).
- Open source development interfaces.
- Scripting Wrapper for Analytics Transfer (SWAT).
- Fundamentals of the R and Python APIs.

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Module 2: Machine Learning**Lessons**

- Predictive modeling.
- Predictive models.
- Model assessment.

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