

Presentation List 2023

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Overview of support.sas.com

This website is THE resource for SAS customers who need information about using SAS® software, want to find the answer to a SAS question, sign up for a training course or event, buy a book, or learn more about the latest software release. This session will provide a site overview to help SAS users get the most from the site.

SAS Viya

SAS Viya Tour

Have you heard about the new SAS Viya platform and want to know more about it? This session will introduce you to Viya and how to access it through multiple interfaces. You will also learn about CAS (cloud analytic services) and the CAS engine and why it is the power behind the Viya platform. The session will include a brief introduction and demo of SAS Visual Analytics, SAS Visual Statistics, SAS Visual Data Mining and Machine Learning and SAS Visual Text Analytics.

SAS Viya Overview

SAS Viya is an open software set of products that runs in the cloud and the data is loaded into memory. In addition to cloud computing, it aims to be powerful for rapid deployment, visual analytics, and machine learning. It has facilities for natively using open source languages like Lua, python, R, and Java. This session covers the what, why and how for SAS Viya.

Programming:

Introduction to CASL Programming

In this session, you learn how to leverage SAS Cloud Analytics Services (CAS). We will cover how to access, explore, prepare, analyze, and summarize data using the native CAS programming language (CASL). CASL is a new scripting language designed to support the entire analytics life cycle.

This session includes:

- Connecting to the CAS server to access and manage data.
- Exploring and updating data.
- Creating Summary Report and Analysis

Analytics:

Getting Started with SAS® Visual Statistics

You are a business analyst, statistician or data scientist responsible for data exploration and model creation, but you are new to SAS Visual Statistics. This presentation will introduce you to SAS Visual Statistics – what it is, the value that it provides, and its capabilities for visually exploring data using statistical modeling techniques. The presentation and accompanying demonstration will provide a preliminary view into the following components of SAS Visual Statistics:

- Getting to SAS Visual Statistics– from the Hub, SAS Visual Analytics both directly and from analysis graphs
- Creating Models – decision trees and logistic regression
- Comparing Models – looking at different criterion including Lift, ROC and Misclassification
- Score Code – how to create score code and score new data

The goal of this session is to help you start using and deriving value from SAS Visual Statistics as quickly as possible.

Getting Started with SAS® Visual Data Mining and Machine Learning

SAS Visual Data Mining and Machine Learning is designed for the data scientist, statistician and advanced business analyst. Whether you want to program or point and click it provides innovative algorithms and fast, in-memory processing.

This session is for the new user. And covers what it is, the value provided and an overview of the capabilities. The presentation and accompanying demonstration will provide a view into the following components of SAS Visual Data Mining and Machine Learning:

- New Algorithms - Factorization Machines and Random Forest
- Creating Models - Neural Network and Gradient Boosting (including auto tuning)
- Comparing Models - comparing different criterion including lift, ROC and misclassification
- Interfaces - Interactive, Programming and Integration to Open Source

How to move your models from SAS 9.4 to SAS Viya

Need to move your models from SAS 9.4 to SAS Viya? We've got you covered!

This sessions shows you how your SAS Enterprise Miner models can easily be brought into Viya pipelines both to compare with new models and to score new data.

Viya adds additional functionality by giving you the ability to keep current SAS Enterprise Miner champion models while comparing challenger models within Viya.

You will learn:

- Differences and similarities between SAS Enterprise Miner and SAS Visual Data Mining and Machine Learning.

- How to use SAS Enterprise Miner models in Viya and Viya models in SAS Enterprise Miner.
- Scoring in Viya with SAS Enterprise Miner models and scoring in SAS 9.4 with Viya models.

Introduction to SAS® Visual Text Analytics

SAS Visual Text Analytics offers a wide variety of modeling approaches for getting the most value from unstructured data, including supervised and unsupervised machine learning, linguistic rules, categorization, entity extraction, sentiment analysis and topic detection. In this session we will cover an overview of what it is and how you can use it to gain insights from your unstructured/text data.

Introduction to SAS Visual Forecasting

SAS Visual Forecasting generates large quantities of forecasts quickly, automatically and as accurately as can be reasonably expected given the nature of the behavior being forecast. Organizations can better plan for the future. Users can range from analysts responsible for the creation of the forecasts to the managers and directors responsible for overseeing the forecasting and planning processes. This session will cover:

- the **visual**, program, and open source interfaces
- preparing the time series data
- building and comparing models through pipelines
- applying overrides through the integrated **visual** interface

Open Source:

How does SAS Viya and Open Source Integrate

Combining the power of SAS with open source technologies, you can unify disparate tools and analytic assets into a streamlined, collaborative environment – fostering productivity, business agility and tangible results.

This session will help you learn the many ways SAS® Viya® integrates with open source.

Learn how to:

- Access the power of SAS using your existing skills, like SAS, open source or other programming skills.
- Use Python or R in the analytical flow of pipelines.
- Use Python or R through the SWAT package.
- Use the Python Editor within SAS Studio.

SAS 9.4

Programming:

The Top 5 Things SAS Programmers Should Know About Enterprise Guide

Are you a seasoned SAS programmer? Are you a bit hesitant about this interface called Enterprise Guide? This discussion focuses on questions that SAS programmers might have about Enterprise Guide such as: Can I still use my SAS code? Are there tasks that are 'easier' with Enterprise Guide? And more!

The Top 20 Ways to Optimize Your SAS® Code

Learn tips and tricks to make your SAS code run more efficiently. There are at least six ways to do most things in SAS, so understanding some coding guidelines can help to guide efficient decisions. Some tips include: how to measure performance, creating readable code, basic coding recommendations and developing code.

Hidden Gems in SAS® Enterprise Guide®

SAS Enterprise Guide is much more than a point-and-click interface to SAS. This session looks at both new and existing functionality to help the novice user as well as the long time programmer including: task templates, code templates, conditions in a process flow, ordered Lists, filters in tasks, prompted filters, computed columns, and adding SAS code to a process flow.

SAS® Enterprise Guide® Overview

Enterprise Guide is a flexible, user friendly interface within SAS that allows point and click access to pre-packaged tasks and reporting as well as a full programming interface. This presentation investigates some of the basic functionality of Enterprise Guide as it takes a look at reading data, using tasks, and manipulating data using the Query Builder window. The programming interface within Enterprise Guide is also explored.

Introduction to PROC SQL

Investigate the capability of SQL processing within SAS® as you are introduced to basic concepts. Find out how to create columns, subset data and perform simple joins.

Topics include:

- What is PROC SQL?
- Basic SQL queries and syntax
- Creating columns, sub setting and conditional logic
- Introduction to joins
- Creating macro variables

Analytics:

Data Preparation Techniques for Predictive Modeling in SAS® Enterprise Guide™

In this session we cover creating a data mart to be used for modeling. We start by discussing the data and data format needed for modeling. We then walk through an example in SAS Enterprise Guide by creating a target variable, creating model input variables from single or multiple variables, recoding variables and subsetting the data to the cases of interest. The entire process is captured in a SAS Enterprise Guide Process Flow.

Data Preparation Techniques for Analytics in SAS® Enterprise Guide™

In this session we will cover the data structures required for different types of analytics, including descriptive statistics, modeling, multivariate analysis, and forecasting. Using SAS Enterprise Guide we will look at examples on how to create these data structures from raw or transactional data.

Data Diagnostics in SAS® Enterprise Guide™

In this session we discuss doing data diagnostics for your analytical analysis. We cover how to describe data (descriptive statistics), graph the data, detect and deal with outliers, assess normality, transform variables in order to meet assumptions (transformations), and sample (for Modeling purposes).

Logistic Regression: What Is It and What Can I Learn From It?

This tutorial is designed for someone that does not have a statistical background but may need to predict an outcome using Logistic Regression. If the words after the “but” in the previous sentence seem like another language, this will be the session designed for you. This tutorial will answer the questions “What is a Logistic Regression?” and “What will I learn from running a Logistic Regression on my data?” In the session, simple examples will be used to show how to set up your data, run a logistic regression, and interpret the output.

Using SAS/STAT®: A Gentle Introduction to Some Frequently Used Tools

Frequently, business interventions are evaluated by comparing two groups with respect to some outcome measure(s). For example, we might want to compare customers who received a marketing campaign with customers who did not receive the campaign, with respect to whether they bought additional products or services, quantity of a product purchased, or other measures. We might need to compare two, or more than two, groups of customers; and the outcome measure(s) might be dichotomous (e.g., product buy-up vs. no buy-up) or continuous (e.g., quantity of a product purchased) with a variety of distributions. SAS/STAT provides several easy-to-use tools for such analytic situations, including PROC FREQ (chi-square tests, Fisher’s exact test), PROC TTEST and PROC NPAR1WAY. This presentation will cover some of the tests most frequently used in the types of analytic situations outlined above. We will cover basic guidelines for using different tests and provide examples. This presentation is intended as an introduction for SAS users with a minimal Statistics background.

Introduction to Data Mining and an Overview of SAS® Enterprise Miner™

What exactly is data mining and how can it help your organization more confidently predict the future? This presentation will introduce you to the essential aspects of data mining and give you a guided tour of SAS® Enterprise Miner™, the powerful data mining workbench from SAS.

A Top 10 List: Advantages of Using SAS® Enterprise Miner™ for Predictive Modeling

SAS Enterprise Miner contains an unmatched suite of modeling techniques and algorithms. This broad toolset helps overcome common challenges of data mining and provides a comprehensive workbench to manage the entire process. Learn some of many ways that SAS Enterprise Miner can benefit data miners and organizations, including increased productivity and more accurate models.

Variable Selection using SAS® Enterprise Guide® and SAS® Enterprise Miner™?

This presentation will answer the what, why and how on variable selection. What is variable selection sometimes called variable reduction? Why is it important? And why should it be on your list of activities when doing predictive modeling? How to do variable selection using SAS® Enterprise Guide® and SAS® Enterprise Miner™? This presentation will include examples for both SAS products.

Model Selection in SAS® Enterprise Guide® and SAS® Enterprise Miner™

This presentation will answer the what, why and how on model selection. We will take a look at criterion and techniques used for model selection. Why is it important? And why should it be on your list of activities when doing predictive modeling? How to do model selection using SAS® Enterprise Guide® and SAS® Enterprise Miner™? This presentation will include examples for both SAS products.

Getting Started with SAS Visual Text Analytics

Want to learn how to use SAS® Visual Text Analytics, but aren't sure how to get started? This presentation will walk through the basic steps to start you on your journey. Learn how to access and read unstructured data, perform natural language processing, explore concepts in your document collection, group similar documents in topics, apply sentiment analysis, do content categorization and even use unstructured data for predictive modeling.

Tips and Tricks for SAS Enterprise Miner

The strength of SAS Enterprise Miner is the ability to quickly create a predictive model using various statistical and modeling techniques. This session covers both new and existing functionality to help the new user, long time programmer, business analyst and the expert user gain productivity through efficiency and clever tricks.

Exploring & Modeling Using Interactive Decision Trees in SAS® Enterprise Miner™

Decision trees are a useful, multi-purpose tool in a modeler's tool chest. Not only can decision trees be used for predictive modeling, they can be used for variable selection, variable importance, interaction detection, missing value imputation and model interpretation. In this session, we will discuss and illustrate how to take advantage of the decision tree tool in SAS® Enterprise Miner™ including interactive decision trees for exploration and modeling.

Ensemble Models and Partitioning Algorithms in SAS Enterprise Miner

This session presents various ensemble models based on partitioning algorithms in SAS Enterprise Miner. These include decision trees, bagging, boosting, gradient boosting, random forests, and ensemble trees.

Open Source:

Introduction to SASPy

SAS integrates with Python through various code libraries and tools that allow open source developers to unite the Python language with the analytic power of SAS. SASPy is the key that allows Python developers (who may or may not code in SAS) access to SAS 9.4 data and analytics capabilities, without having to code in SAS. Some of its key features are it can generate SAS code by the supplied Python objects and methods, convert data between SAS data sets and Pandas data frames, and interface with Jupyter notebooks or interactive and batch Python. If you are curious about learning more how these 2 technologies can work together, make sure to attend this session!

Both SAS Viya and 9.4

Programming:

Introduction to SAS Studio

SAS Studio is a web based interface for SAS. With SAS Studio, you can access your data files, libraries, and existing programs, and you can write new programs. You can also use the predefined tasks in SAS Studio to generate SAS code. When you run a program or task, SAS Studio connects to a SAS server to process the SAS code. After the code is processed, the results are returned to SAS Studio in your browser. This session introduces users to SAS Studio.

Analytics:

Introduction to Machine Learning in SAS

This presentation answers the questions of What is Machine Learning? And What does SAS offer for Machine Learning? Examples of specific machine learning techniques such as Random Forest, Gradient Boosting, Support Vector Machines, Neural Networks and K-means are covered.

Proven Practices for Predictive Modeling

In our ongoing quest for “analytics excellence,” what are some of the strategies and tactics that we, as analytics practitioners, can consider not only for individual predictive modeling projects, but for increasing the value and importance of analytics in our organizations? This presentation

will share some of the common strategies, attributes, processes and best practices of the most successful organizations. Best practices will include considerations for an overall analytics process as well as the discrete steps of building a predictive model, such as data preparation and sampling; input (variable) examination, selection and transformation; model selection and validation; and more.

Handling Missing Values in SAS

What do you do when you have missing values in your data? In SAS we have many ways to manage missing values. In this session we cover what are missing values, why and when missing values occur and how to manage missing values. We discuss functions, procedures and how different products deal with missing values.

SAS® Macro Facility: Beyond the Basics

Extend your macro understanding with an introduction to macro topics such as iterative processing, conditional processing, and macro quoting. You will see how to create macro variables at execution time using the CALL SYMPUTX routine. Code examples will be provided for each of these topics.

Open Source:

Introduction to SAS and Open Source

SAS understands the value open source collaboration brings to the analytics community. If you're using open source data science tools, or plan to integrate them into your SAS environment, this is a great opportunity to hear how SAS and open source can be used together.

What we'll cover:

- How SAS integrates with open source through the 9.4 SAS product suite, including Base, SAS/IML, SAS Enterprise Miner, and SAS Model Manager
- Using Jupyter Notebooks for programming in SAS and Python together
- How SAS Viya, the latest SAS platform embraces and integrates with programming languages such as Python, Java, R or Lua.

SAS and Python

Yes, SAS and Python do work together. Whether you are using SAS 9 or the new SAS Viya Platform, you can leverage your Python and SAS knowledge to solve your analytical challenges. This session covers using SAS packages available on Github: SASPy, SWAT and Pipefitter.