



SAS Viya for UOB Dec-2024 in Vietnam

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About me

- Associate professor at Department of Computer Engineering, Faculty of Engineering, Chulalongkorn University
 - Specialized in applying AI/ML/DL into various domains & design Big Data platform (DB/DW)
 - Course: Data Science and Data Engineering, Data Warehousing, Natural Language Processing, etc.
- Project advisors for many companies, specialized in intelligent customer data platforms (data pipeline, model construction/deployment, ML operations)
- Certified SAS instructor
- Certified instructor for Deep Learning Institute
- Parts of NVAITC (NVIDIA AI Technology Center)



About me: SAS Experience

Be an instructor for SAS Thailand for about 11 years

[Base SAS; SAS9]

SAS Programming (PG1, PG2, PG3)

SAS Macro Programming

SAS Enterprise Miner (EM) + Credit Scoring

SAS Data Integration (DI)

[SAS Viya]

SAS Viya (VA1, VA2, VS, VDML, CPML, BDID, VSTUC)

SAS Model Studio

SAS Data Studio

Etc. (SAS for Hadoop, SAS for R)

Conducted SAS workshops for UOB in Thailand (2023) and Malaysia (2024)

Overall Courses: 3 hours x 5 days [Morning & Afternoon]

9:00AM – 12:00PM Morning session (break 10:30AM – 10:45AM)

1:30PM – 4:30PM Afternoon session (break 3PM – 3:15PM)

#	Date	ID	Course Name
1	Monday, Dec 16, 2024	YVA11D (1)	SAS Visual Analytics Basics
2	Tuesday, Dec 17, 2024	YVA11D (2)	SAS Visual Analytics Basics (cont.)
3	Wednesday, Dec 18, 2024	BDID0D (1)	SAS Intelligent Decisioning
4	Wednesday, Dec 19, 2024	BDID0D (2)	SAS Intelligent Decisioning (cont.) Last 90 mins: UOB use cases by Pablo AM: Start at 10:45AM PM: Start at 3.15PM
5	Thursday, Dec 20, 2024	VSTU1C	Building SAS Studio Flows in SAS Viya Last 45 mins: UOB use cases by Pablo AM: Break at 10:45AM-11AM & start at 11AM PM: Break at 3:15PM-3:30PM & start at 3:30PM

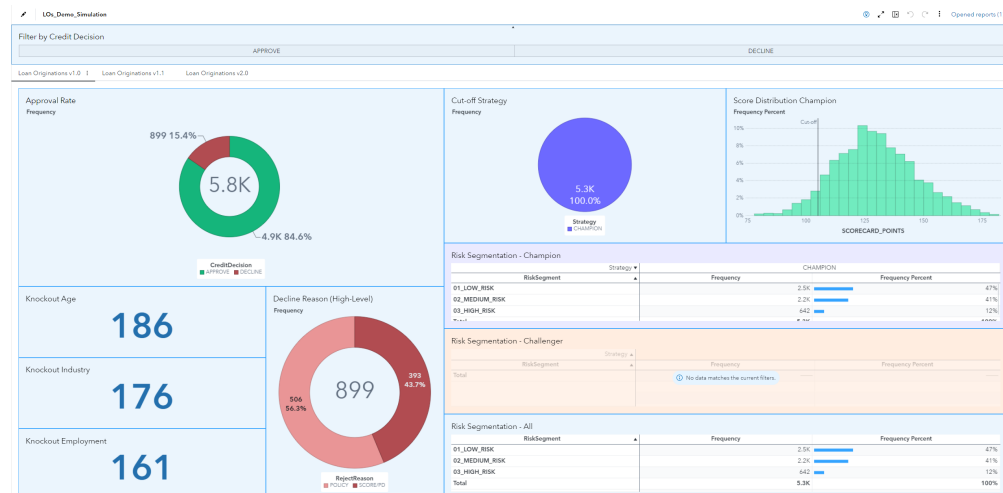
1) SAS Visual Analytics 1 (YVA11D)

Objectives

- Understand the overall solution for SAS Viya
- Be able to create a simple dashboard on SAS Visual Analytics
- Be able to open & view the job in SAS Data Studio

Outline

1. Getting start and introduction to SAS Viya
2. Import data to SAS Viya
3. Analyze data using SAS Visual Analytics
4. Designing reports with SAS Visual Analytics



Outline (Details)

Lesson1 Introduction

- Introduction to Big Data Analytics
- SAS Viya
- Getting start with SAS Visual Data Science Decisioning Trial

Lesson2 Prepare Data

- Investigating Data
- Transforming Data

Lesson3 Analyze Data

- Working with data items
- Exploring data with charts & graphs
- Creating data items & applying filters
- Performing data analysis

Lesson4 Dashboard

- Creating interactive reports
- Working with display rules
- Working with parameters

Lesson1 Introduction

- Introduction to [Big Data Analytics](#)
- [SAS Viya](#)
- Getting start with [SAS Visual Data Science Decisioning Trial](#)

Lesson2 Prepare Data

- Investigating Data
- Transforming Data

ANALYTICS LIFE CYCLE

Manage Data

Prepare Data

Explore and Visualize

Build Models

Manage Models

Build Decisions

Share and Collaborate

Develop SAS Code

ADMINISTRATION

Build Custom Graphs

Explore Lineage

Manage Environment

Manage Workflows

Lesson3 Analyze Data

- Working with data items
- Exploring data with charts & graphs
- Creating data items & applying filters
- Performing data analysis

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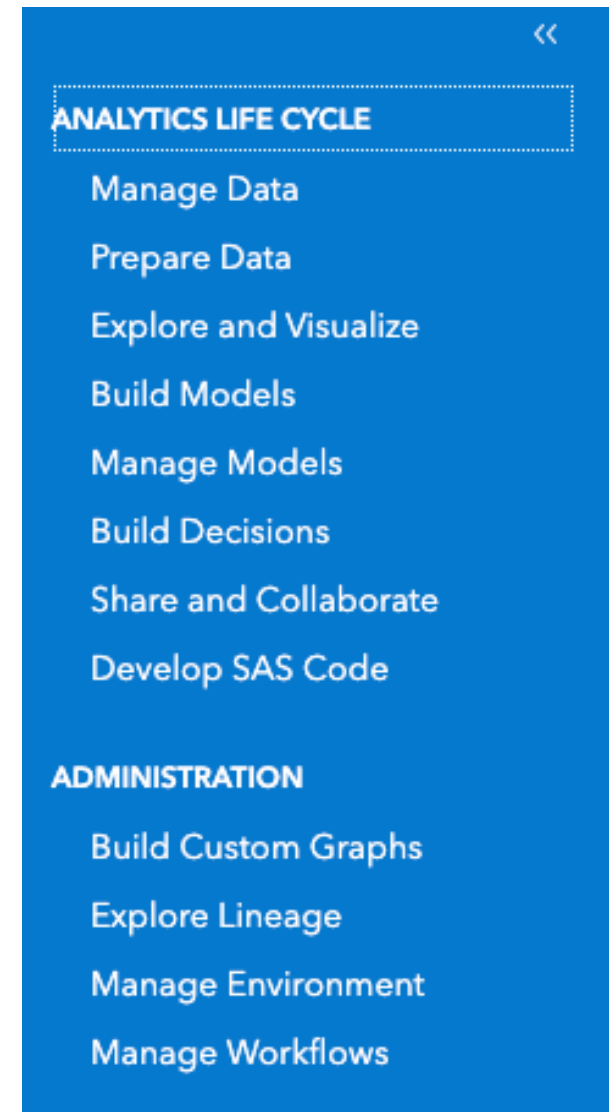
Explore Lineage

Manage Environment

Manage Workflows

Lesson4 Dashboard

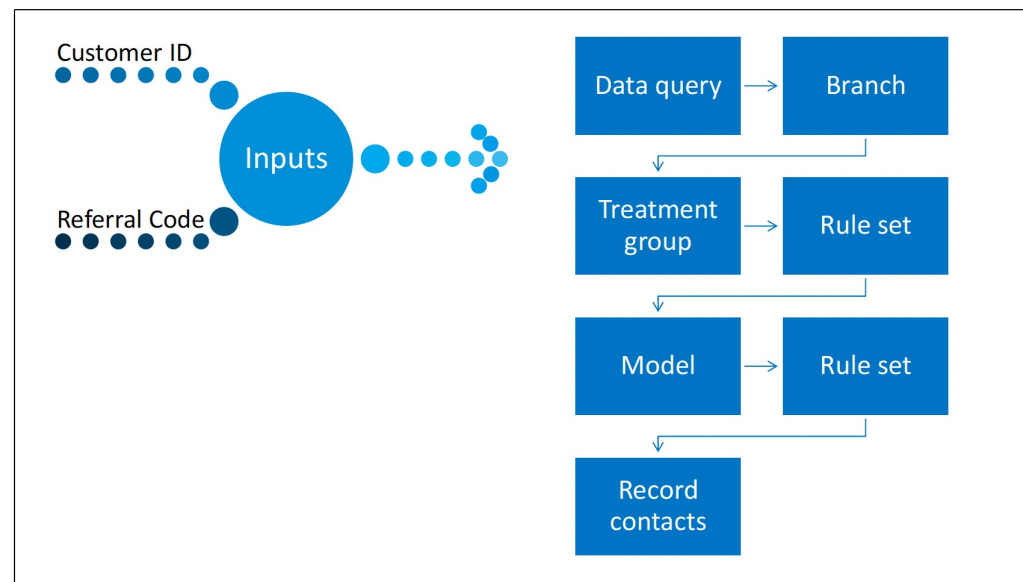
- Creating interactive reports
- Working with display rules
- Working with parameters



2) SAS Intelligent Decisioning (BDID0D)

Objective

- Understand an overview of SAS Intelligence Decisioning (ID)
- Be able to create a decision flow
- Be able to perform a simple test and publish a decision flow



The inputs to the decision are the customer's ID and a referral code. The decision contains a series of nodes to perform the needed processing.

Outline

Lesson 1 SAS Intelligent Decisioning: The Big Picture

Lesson 2 Decision Basics

Lesson 3 Advanced Topics

Lesson 4 Treatments, Treatment Groups

Lesson 5 Testing and Publishing

Outline (Details)

1. SAS ID: The Big Picture
 1. Decision flow: (1) define the process -> (2) input/output -> (3) configure node
 2. Decision types
2. Decision Basics
 1. Rule sets and Rules
 2. Branching and Cross-Branch Linking
3. Advanced Topics
 1. Custom code (data query, DS2 code, Python code)
 2. Models (Build -> Test -> Register)
4. Treatment & Treatment Group (optional)
5. Testing, Publishing, Validating, and Troubleshooting
 1. Basic test
 2. Publishing and validation test

Lesson 1: SAS Intelligent Decisioning: The Big Picture

1.1 Introduction to SAS Intelligent Decisioning

1.2 Introduction to Decisions

Lesson 2: Decision Basics

2.1 Variables

2.2 Rule Sets and Rules

2.3 Global Variables

2.4 Branching and Cross-Branch Linking

2.5 Record Contacts

2.6 Object Versioning

Lesson 3: Advanced Topics

3.1 Custom Code

3.2 Models

3.3 Data Grids

Lesson 4: Treatments, Treatment Groups, and Arbitration

4.1 Treatments and Treatment Groups

4.2 Treatment Arbitration

Lesson 5: Testing, Publishing, Validating, and Troubleshooting

5.1 Testing

5.2 Publishing and Validating

3) Building SAS Studio Flows in SAS Viya (VSTU1C)

Objective

- Understand how to use SAS Studio
- Be able to run and create flow in SAS Studio

Outline

Lesson 1 Getting Started

Lesson 2 Accessing Data

Lesson 3 Transforming and Analyzing Data

3.1 Creating Simple Queries

3.2 Using SAS Studio Analyst Steps

3.3 Creating Results with Tasks

Outline (Details)

1. Introduction (Lesson1)
 1. Introduction to SAS Studio
 2. SAS Studio Flows
2. Accessing Data (Lesson2)
 1. Understand SAS Data
 2. Accessing Data through Libraries
 3. Importing Data
3. Transforming and Analyzing Data (Lesson3)
 1. Create Simple Queries
 2. Using SAS Studio Analyst Steps
 3. Creating Results with Tasks

Lesson 1: Getting Started

1.1 Introducing SAS Studio

1.2 SAS Studio Flows

Lesson 2: Accessing Data

2.1 Understanding SAS Data

2.2 Accessing Data through Libraries

2.3 Importing Data

Lesson 3: Transforming and Analyzing Data

3.1 Creating Simple Queries

3.2 Using SAS Studio Analyst Steps

3.3 Creating Results with Tasks

Questions?

