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IBM Safer Payments Hands-On Modeling Training (V6.3)

Course#:6A330G
Duration:24 Hours
Price:2800.00

Course Description

IBM Safer Payments is an innovative real-time payment fraud prevention and detection solution for all cashless payment types. IBM Safer Payments provides not only model capabilities based on inbuilt tools, but also the option to import externally built fraud models for real-time decisioning.

In this course, all of the IBM Safer Payments model capabilities are presented in details. The following modelling concepts are covered: index, profiling techniques (with and without index sequence), model components comprised of rulesets, PMML, Python and Internal Random Forest, elements of the simulation environment including Rule Generation and Internal Random Forest, as well as the sampling techniques. All these concepts will be followed by the hands-on exercises that students are expected to execute.

Objectives

Mandator Structure and its elements
Sandbox Enviornment
Modeling Concepts in Safer Payments
Index for Profiling
Profiling based on index with sequence
Profiling based on index without sequence
Profiling using Formula
Ruleset/Rule Creation/ Rule Action
Simulation Workflow
Simulation: Data Selection and Sampling techniques

Simulation: Attribute usage
Simulation: Rule Analysis
Simulation: Rule Performane
Simulation: Rule Scoring
Simulation: Rule optimization
Inbuild Model Components: Rule Generation
Inbuild Model Components: Random Forest
Supported external Model Components: PMML
Supported external Model Components: Python
Collusion Algorithm

Audience

IBM Safer Payments users (Fraud Analysts, Fraud Investigators and optional: System Administrators), IBM Lab experts, and IBM Business Partners.

Prerequisites

Business knowledge
Some familiarity with statistical models
Understanding Safer Payments data inputs concepts

Content

Mandator Structure and its elements

Understand Safer Payments structure

Answer the Hierarchy question
Prioritization Execution

Sandbox Environment

Understand Champion/Challenger Concepts
How to promote a model to production
How to copy elements from other challengers
How to revert the model in production

Modeling Concepts in Safer Payments

Understand at the high level the inbuilt techniques vs external model capabilities
Answer the question of what are the Inbuild Model Capabilities
Answer the question of what are supported external Model Capability to Safer Payments

Index for Profiling

Understand the basis of profiling in Safer Payments
Create Index without sequence
Create Index with sequence

Profiling based on index with sequence

Understand Profiling concepts based on index with sequence
Build a counter
Build a precedent
Build a pattern

Profiling based on index without sequence

Understand Profiling concepts based on index without sequence
Build a calendar
Build an event
Build device identification

Profiling using Formula

Ability to create a formula

Ruleset/Rule Creation/ Rule Action

Understand Rulesets and Rules
Build a Ruleset
Build a Rule
Create a Rule Action

Simulation Workflow

Understand The Simulation Environment and workflow

Simulation: Data Selection and Sampling techniques

Understand data selection for simulation
Select data selections for simulation
Sample the data selection
Run the simulation

Simulation: Attribute usage

Understand the role of the attribute usage settings
Select attributes for simulation
Run the simulation

Simulation: Rule Analysis

Understand the concept of the Rule Analysis
Create a Rule Analysis
Analyse a Rule Analysis

Simulation: Rule Performance

- Understand the concept of the Rule Performance
- Create a Rule Performance
- Analyse Rule Performance

Simulation: Rule Scoring

- Understand the concept of the Rule Scoring
- Create a Rule Scoring

Simulation: Rule optimization

- Understand the concept of Rule Optimization
- Create a Rule Optimization Report

Inbuild Model Components: Rule Generation

- Understand the concept behind Rule Generation
- Understand the setting parameters
- Use of verification data set and training data set
- Use Interactive Mode for Rule Generation

Analyse the Rule Designer parameters
Use Fully automated Mode of Rule Generation

Inbuild Model Components: Random Forest

Understand the concept of Internal Random Forest
Understand the setting parameters
Use of verification data set and training data set
Run and Analyse results

Supported external Model Components: PMML

Understand how to import a PMML model into IBM Safer Payments
Understand how to map inputs and outputs of the model
Understand how to use PMML for decisioning

Supported external Model Components: Python

Understand how to import a python script into IBM Safer Payments
Use python for pre-processing rulesUse python for formula
Use python for modelling

Collusion Algorithm

Understand the concept of the Collusion Algorithm

Understand how to set up a collusion algorithm: manually and automatically

Create and simulate the Collusion

How to invoke the collusion algorithm