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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.

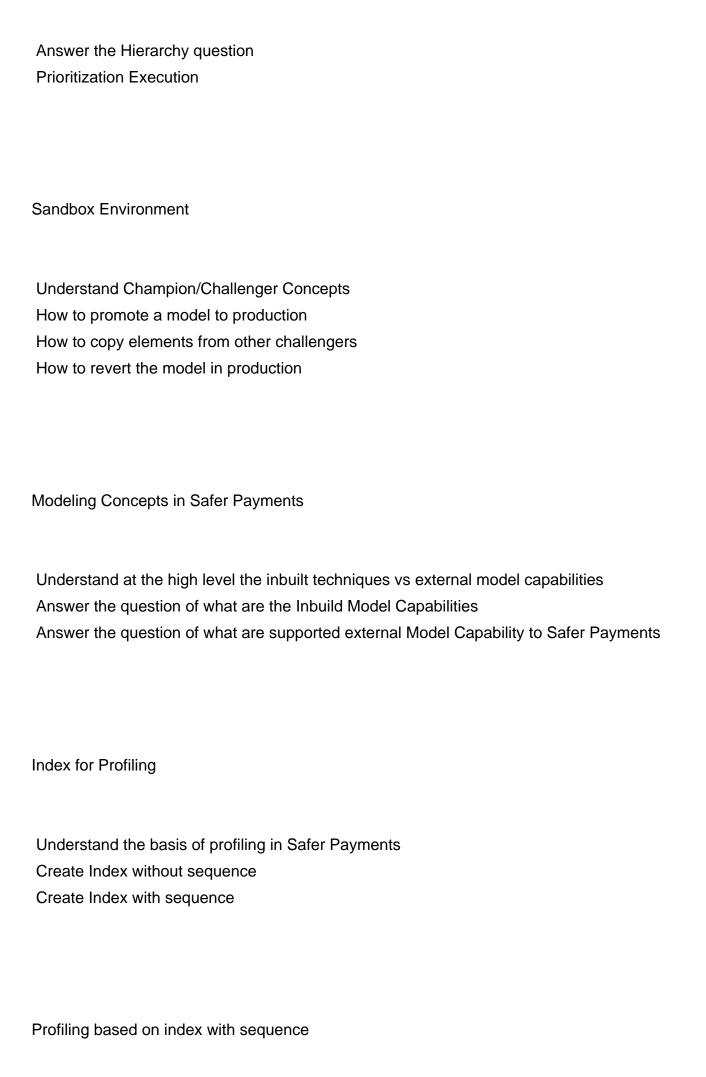
Prerequisites

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

Content

Mandator Structure and its elements

Understand Safer Payments structure



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

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