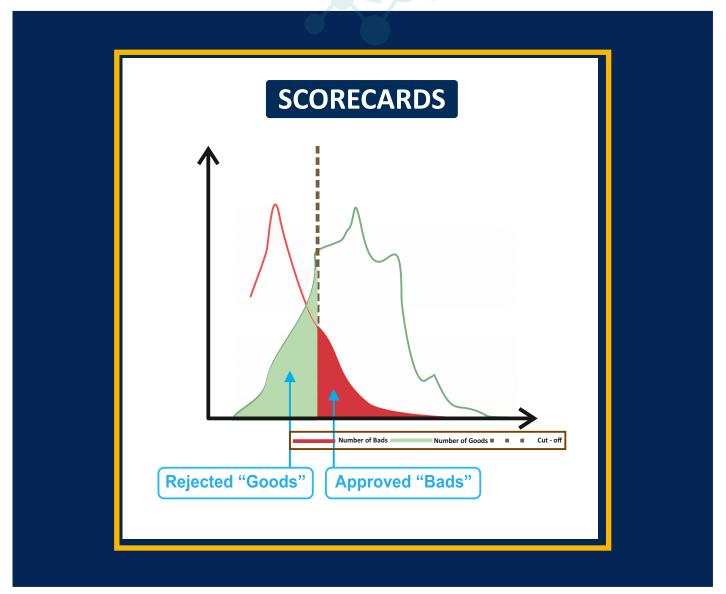
APPLICATION, BEHAVIOR & COLLECTION SCORECARDS

using Excel & Python

50+ hours

Case Study and Project- driven Methodology
Blended Learning Methodology





DETAILED CURRICULUM

MODULE 1 - APPLICATION OF SCORECARDS

VARIABLE EXPLORATION

- Comprehensive walk through of the variables.
- Dropping off irrelevant variables not consistent with business logic.
- Creating important Covariate.

PORTFOLIO OVERVIEW

- Product based
- Vintage based
- Riskiness based
- Accepted and Rejected loans

DATA PREPARATION

- Missing Observations Analysis
- Univariate Analysis
- Frequency Distribution Analysis

SEGMENTATION ANALYSIS

- Business Segmentation
- Statistical Segmentation

VARIABLE SELECTION

- Weight of Evidence
- Information Value

MODEL DEVELOPMENT

- Logistic Regression
- Create a cut-off score by analysing
- The sensitivity and specificity

MODEL VALIDATION

- Discriminatory capacity of the model Gini, Accuracy Ratio, KS statistic
- Stability of the Population -Population Stability Index
- Stability of the model components Variable Deviation Index, Rank Ordering of the model



DETAILED CURRICULUM

MODULE 2 - BEHAVIOURAL SCORECARDS

DELINQUENCY
&
BAD FLAGGING

• Default definition as per Roll Rate analysis.

RISK ANALYSIS

Create derived Variables

DATA QUALITY CHECKS

Missing Observations Analysis

- Univariate Analysis
- Frequency Distribution Analysis

PERFORMANCE EXCLUSIONS

Modelling Exclusions of inactive a/c's.

SEGMENTATION

Statistical Segmentation & Risk based Segmentation

COVARIATES CREATION

ANOVA analysisy

MODEL VALIDATION & MODEL DEVELOPMENT

- Logistic Regression for Model development
- Create a cut-off score by analysing the sensitivity and specificity
- Model discriminatory capacity
- Model accuracy and Model Stability



DETAILED CURRICULUM

MODULE 3 - REJECT INFERENCING

METHODS OF REJECT INFERENCING

- Hard cut-off method
- Fuzzy Augmentation
- Parceling Method

MODULE 4 - COLLECTION SCORECARDS

METHOD OF MODELLING COLLECTIONS

- Triangular Matrix approach
- Vintage Analysis
- Linear Regression

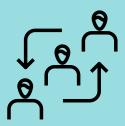
BACKGROUND

The application of scoring models in today's business environment covers a wide range of objectives. The original task of estimating the risk of default has been augmented by credit scoring models to include other aspects of credit risk management: at the pre-application stage, at the application stage, and at the performance stage. This course also teaches a range of scorecards used by the bank to take accept/reject decisions, pursue A/C management strategies and monitor collections.



WHO CAN ATTEND

Credit risk/scoring managers and data miners; those involved in model vetting/validation and auditing; risk strategy developers; and credit risk executives. Students pursuing FRM willing to work in Banks In Model Development and Validation Teams.



OBJECTIVE

Understanding of scorecard model vocabulary, Learn Data manipulation techniques, Learn predictive modelling techniques, Detailed training on scorecard model development, Understanding Model Validation techniques.



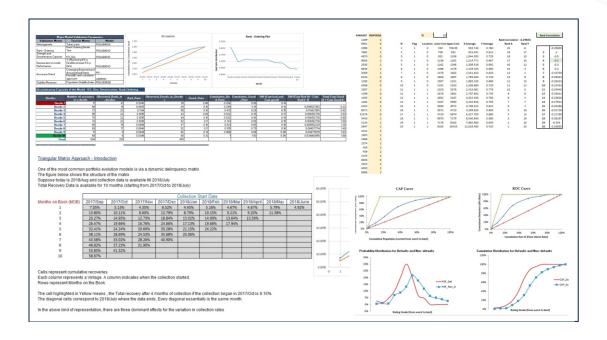
PEDADOGY

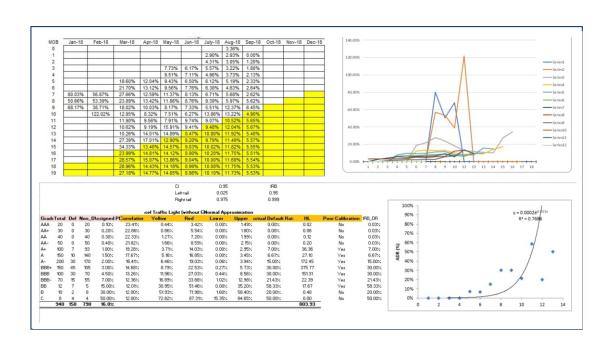
An intuitive non-quantitative approach will be employed throughout so that participants develop a feel for risk/reward tradeoffs without relying on complex mathematical formulas. Having said that , participants are encouraged to have laptops with Excel for a chance to manipulate simple but illustrative calculations.



DEMO MODELS

DURING THE PROGRAM YOU WILL LEARN TO CREATE EXCEL MODELS LIKE SHOWN BELOW





FREQUENTLY ASKED QUESTIONS

PREREQUISITE



Knowledge of Basic Excel , Basic Statistics , Credit Risk Terminology is must

CERTIFICATE



Silver Certificate on successful completion of projects.
Gold Certification on passing a 2 hours MCQ based exam.

FEES



Rs.15000

DURATION



50+ hours

ABOUT THE TRAINER



Karan Aggarwal is one of India's leading trainers in Financial Modelling, Risk Modelling, Data Analytics and academic programs like Financial Risk Manager (FRM) & Actuarial Science. He has spearheaded several solution accelerators and spreadsheet-based prototypes in Risk and Analytics space. Karan has also authored a number of books on Advanced Excel, Statistical Modelling, Risk Modelling & Machine Learning. He is widely regarded for his problem-solving, thought leadership and intrapreneurship skills. His analytical mindset, solid fundamentals & the thirst to keep learning set him apart as a true authority in this field. Karan has also been awarded the Young Indian Entrepreneur Award by the Confederation Of Indian Industries in the year 2017.



OUR TRAINEES WORK IN































OUR SERVICES













