



Big Data Analytics:

Data Mining and Predictive Analytics with RapidMiner

What is this training about?

This training is a highly practical, application focused four-days course (RapidMiner Basics Pt. 1 & Pt. 2), exploring the possibilities of performing data mining and predictive analytics with RapidMiner. Where Part 1 of the course takes a clean, simplified business example to build a strong foundation, Part 2 explores a similar business case with some of the messiness of the real world added in.

This class resembles a mentor-mentee relationship with the entire group performing as members of a data science team. After successfully completing this course, participants will have a decent understanding of how RapidMiner advanced analytics platform is used, and be able to prepare data and create predictive models in data environments typically found within most analyst positions. Participants will also be ready to extend their knowledge with advanced topics such as text/web mining, operationalization, and big data.

Practical exercises during class prepare the participants to transfer the knowledge gained and apply it to their own data mining problems, solving them quickly and easily. The class labs are hands-on, performed on the participants' own laptops, so they will be taking their actual classwork home to jumpstart their application to the real world.

Who should attend this training

This training is ideal for professionals who intend to utilize tools and techniques like data mining, data visualizations and predictive modeling to predict and optimize outcomes and derive value from their data. The lessons learnt will be applicable to areas such as customer analytics, targeted marketing, social media analytics, fraud detection, predictive maintenance, resource management, etc.

After the training, students will have the ability to:

- Perform all common data preparations
- Build sophisticated predictive models
- Evaluate model quality with respect to different criteria
- Deploy data mining models

This training is the perfect preparation and pre-requisite for the Analyst level certification exam.

About Go Training

Go Training applies effective pedagogical methodologies that demonstrate case studies and hands-on practical skills, in addition to explaining clearly how things work in principle. Every course that we conduct is delivered by a subject matter expert who holds the academic qualification and working experience in that specialization. On the days when they are not teaching, our trainers work on consultancy projects and technical deliveries. Their work has received numerous recognition and awards in the industry. Our team of trainers has been invited as keynote speakers at numerous international conferences, and as principal consultants for various industries.

Date: 11 – 14 April 2016
(Monday - Thursday)
Time: 0900 - 1700
Venue: KDC, Kuala Lumpur, Malaysia.

**HRDF + MSC Malaysia MyProCert Program
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Course Outline

RapidMiner Basics Pt. 1

- Overview
 - Business Scenario, Analytics
 - Data Mining in the Enterprise, CRISP-DM
- Basic usage
 - User Interface, Creating and Handling RapidMiner Repositories
 - Starting a New RapidMiner Project, Operators and Processes
 - Loading Data, Storing Data, Processes, and Results
- EDA: Exploratory Data Analysis
 - Data Types, Data Hierarchy, Quick Summary Statistics
 - Visualizing Data, Charting
- Data preparation
 - Normalization and Standardization
 - Basic Transformations of Value Types
 - Handling Missing Values, Sampling
 - Filtering examples and attributes, Handling attribute roles
- Building better processes
 - Organizing, Renaming, Relative Path, Flow Control
 - Subprocesses, Building Blocks, Breakpoints
- Predictive models
 - Correlations, K-Nearest Neighbor, Naive Bayes, Linear Regression
 - Rules, Decision Trees, Importance of Attributes
- Model evaluation
 - Applying Models, Overfitting, Splitting Data
 - Evaluation Methods, Performance Criteria
- Sharing and collaboration
 - Exporting Images, RapidMiner Server

RapidMiner Basics Pt. 2

- Overview
 - Business Case Changes, Intro Course Recap, Loading New Data
- EDA
 - Multiple Sources, Understanding New Attributes
 - Schema Relationships
- Data preparation
 - Joins, Aggregation, Multi-level Aggregation
 - Pivot, Set Theory, Calculated Values, Regular Expressions
 - Changing Value Types, Balancing Data, Outlier Detection
 - Feature Selection, Dimensionality Reduction
- Predictive Models (Sample Varies)
 - SVM, Random Forest, K-Means Clustering, Neural Networks
 - Logistic Regression, Meta Learning
- Model evaluation
 - Advanced Performance Criteria, ROC Plots
 - Comparison between Models, Lift Chart
 - Significance Tests, Logging Results
 - Validation of Preprocessing and Preprocessing Models
- Deployment
 - Sharing data, models, and processes
 - Exporting processes as web service
 - Basics of Report Creation
 - Managing Processes and Services

About the Instructor

Jaden graduated from Wichita State University (USA) in 2010, with a Bachelor's Degree in Aerospace Engineering. His primary design work in college was the design-build-fly of a radio-controlled aircraft. Other notable efforts include the investigation of the aerodynamic behaviors of an automobile and the Global Design Challenge, a collaborative airframe design competition sponsored by Spirit Aerosystems. The close-to-industry project management and collaboration settings in these projects played a part in preparing Jaden well for a jump-start in his career.



Jaden began his career as an Application Engineer in TechSource Systems, the SEA sole distributor of MATLAB. As a consultant, he focused on technical computing areas such as data analytics, artificial intelligence, image processing, application deployment, etc. During this time, Jaden has supported many engineering and research professionals and assisted them in creating more efficient workflows and obtaining better results.

In 2013, Jaden transitioned to the MATLAB technical sales role, taking charge of commercial accounts in Malaysia and Indonesia. He works with decision-making executives and has established a thorough understanding on business requirements that necessitates adoption of new technologies. In 2014, Jaden has co-founded Quandatics, which focuses on developing and providing advanced analytics services and solutions. Jaden is now heading the business development and technical marketing teams in Quandatics and his clientele-base includes MNCs, GLCs, government agencies, and higher-education institutions.



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