

Introduction to Machine Learning Models Using IBM SPSS Modeler (V18.2) (0A079G)

ID 0A079G Prix CHF 1 890,- (Hors Taxe) Durée 2 jours

A qui s'adresse cette formation

- Data scientists
- Business analysts
- · Clients who want to learn about machine learning models

Pré-requis

• Knowledge of your business requirements

Contenu

Introduction to machine learning models

- • Taxonomy of machine learning models
- • Identify measurement levels
- Taxonomy of supervised models
- · Build and apply models in IBM SPSS Modeler

Supervised models: Decision trees - CHAID

- • CHAID basics for categorical targets
- · Include categorical and continuous predictors
- • CHAID basics for continuous targets
- · Treatment of missing values

Supervised models: Decision trees - C&R Tree

- • C&R Tree basics for categorical targets
- Include categorical and continuous predictors
- C&R Tree basics for continuous targets
- • Treatment of missing values

Evaluation measures for supervised models

- • Evaluation measures for categorical targets
- • Evaluation measures for continuous targets

Supervised models: Statistical models for continuous targets - Linear regression

- • Linear regression basics
- • Include categorical predictors
- • Treatment of missing values

Supervised models: Statistical models for categorical targets - Logistic regression

- • Logistic regression basics
- Include categorical predictors
- • Treatment of missing values

Supervised models: Black box models - Neural networks

- • Neural network basics
- • Include categorical and continuous predictors
- • Treatment of missing values

Supervised models: Black box models - Ensemble models

- • Ensemble models basics
- Improve accuracy and generalizability by boosting and bagging
- • Ensemble the best models

Unsupervised models: K-Means and Kohonen

- • K-Means basics
- • Include categorical inputs in K-Means
- Treatment of missing values in K-Means
- • Kohonen networks basics
- · Treatment of missing values in Kohonen

Unsupervised models: TwoStep and Anomaly detection

- • TwoStep basics
- • TwoStep assumptions
- • Find the best segmentation model automatically
- Anomaly detection basics
- • Treatment of missing values

Association models: Apriori

• • Apriori basics

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- • Evaluation measures
- • Treatment of missing values

Association models: Sequence detection

- • Sequence detection basics
- • Treatment of missing values

Preparing data for modeling

- • Examine the quality of the data
- Select important predictors
- Balance the data

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