Advanced Machine Learning Models Using IBM SPSS Modeler (V18.2) (0A039G)

ID 0A039G **Prix** CHF 990,– (Hors Taxe) **Durée** 1 jours

A qui s'adresse cette formation

- Data scientists
- Business analysts
- Experienced users of IBM SPSS Modeler who want to learn about advanced techniques in the software

Pré-requis

- Knowledge of your business requirements
- Required: IBM SPSS Modeler Foundations (V18.2) course (0A069G/0E069G) or equivalent knowledge of how to import, explore, and prepare data with IBM SPSS Modeler v18.2, and know the basics of modeling.
- Recommended: Introduction to Machine Learning Models Using IBM SPSS Modeler (V18.2) course (0A079G/0E079G), or equivalent knowledge or experience with the product about supervised machine learning models (CHAID, C&R Tree, Regression, Random Trees, Neural Net, XGBoost), unsupervised machine learning models (TwoStep Cluster), and association machine learning models such as APriori.

Contenu

Introduction to advanced machine learning models

- Taxonomy of models
- Overview of supervised models
- Overview of models to create natural groupings

Group fields: Factor Analysis and Principal Component Analysis

- Factor Analysis basics
- Principal Components basics
- Assumptions of Factor Analysis
- Key issues in Factor Analysis
- Improve the interpretability
- Factor and component scores

Predict targets with Nearest Neighbor Analysis

- Nearest Neighbor Analysis basics
- Key issues in Nearest Neighbor Analysis
- Assess model fit

Explore advanced supervised models

- Support Vector Machines basics
- Random Trees basics
- XGBoost basics

Introduction to Generalized Linear Models

- Generalized Linear Models
- Available distributions
- Available link functions

Combine supervised models

- Combine models with the Ensemble node
- Identify ensemble methods for categorical targets
- Identify ensemble methods for flag targets
- Identify ensemble methods for continuous targets
- Meta-level modeling

Use external machine learning models

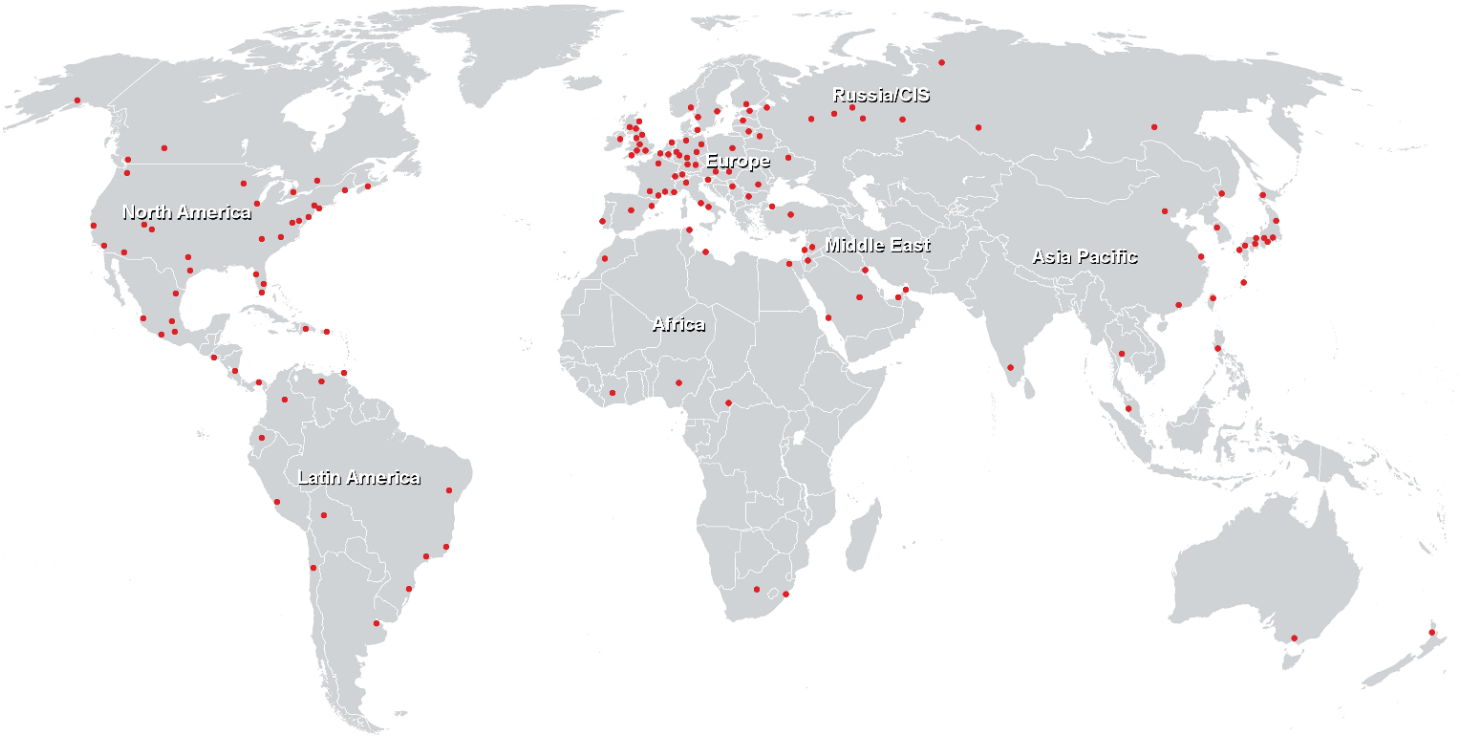
- IBM SPSS Modeler Extension nodes
- Use external machine learning programs in IBM SPSS Modeler

Analyze text data

- Text Mining and Data Science
- Text Mining applications
- Modeling with text data

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