



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Du kan nå oss her

Postboks 6562 ETTERSTAD, 0606 Oslo, Norge

Email: kurs.ecs.no@arrow.com

Phone: +47 22 02 81 00



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

CODE:	LENGTH:	PRICE:
0A079G	16 Hours (2 days)	kr15,770.00

Description

This course provides an introduction to supervised models, unsupervised models, and association models. This is an application-oriented course and examples include predicting whether customers cancel their subscription, predicting property values, segment customers based on usage, and market basket analysis.

Objectives

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
Association models: Sequence detection • Sequence detection basics • 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 • Evaluation measures • Treatment of missing values
Preparing data for modeling • Examine the quality of the data • Select important predictors • Balance the data

Audience

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

Prerequisites

- Knowledge of your business requirements

Programme

Introduction to machine learning models• Taxonomy of machine learning models• Identify measurement levels• Taxonomy of supervised models• Build and apply models in IBM SPSS ModelerSupervised models: Decision trees - CHAID• CHAID basics for categorical targets• Include categorical and continuous predictors• CHAID basics for continuous targets• Treatment of missing valuesSupervised 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 valuesEvaluation measures for supervised models• Evaluation measures for categorical targets• Evaluation measures for continuous targetsSupervised models: Statistical models for continuous targets - Linear regression• Linear regression basics• Include categorical predictors• Treatment of missing valuesSupervised models: Statistical models for categorical targets - Logistic regression• Logistic regression basics• Include categorical predictors• Treatment of missing valuesSupervised models: Black box models - Neural networks• Neural network basics• Include categorical and continuous predictors• Treatment of missing valuesSupervised models: Black box models - Ensemble models• Ensemble models basics• Improve accuracy and generalizability by boosting and bagging• Ensemble the best modelsUnsupervised 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 KohonenUnsupervised models: TwoStep and Anomaly detection• TwoStep basics• TwoStep assumptions• Find the best segmentation model automatically• Anomaly detection basics• Treatment of missing valuesAssociation models: Apriori• Apriori basics• Evaluation measures• Treatment of missing valuesAssociation models: Sequence detection• Sequence detection basics• Treatment of missing valuesPreparing data for modeling• Examine the quality of the data• Select important predictors• Balance the data

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
12 Jun 2023	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		kr15,770.00
02 Oct 2023	Virtual Classroom (GMT / UTC)	BST	English	Instructor Led Online		kr15,770.00

Tilleggsinformasjon

[Denne treningen er også tilgjengelig som trening på stedet. Kontakt oss for å finne ut mer.](#)