Enterprise Miner – fremdeles et velfungerende SAS produkt

Mathias Lanner

Principal Adviser, Advanced Analytics & AI

SAS Institute

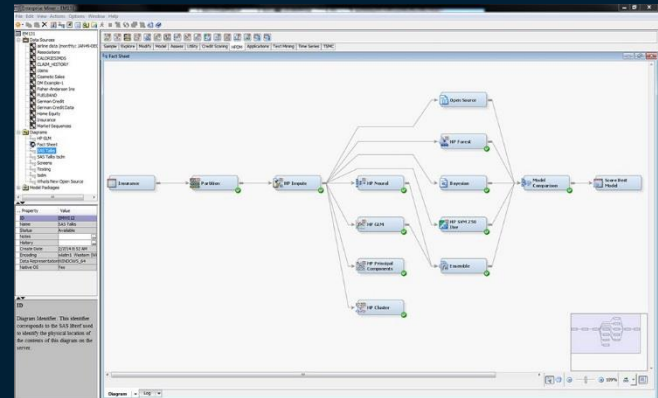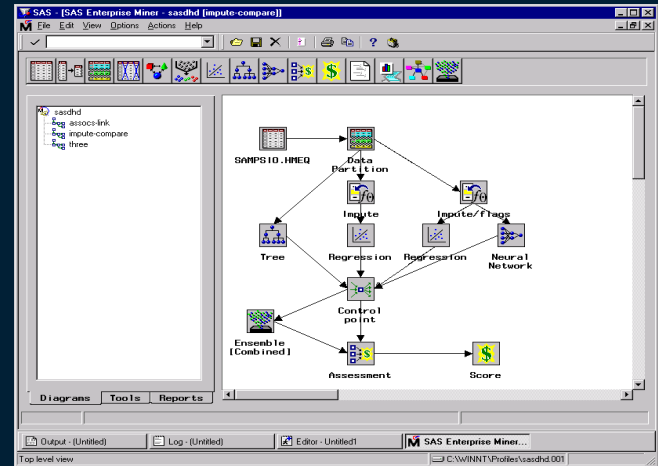# Introduction to Enterprise Miner

sas.com

Building models

Code generator

Enterprise Miner
Quick facts

- First release version 2.01 1998
- Process flow diagram drag and drop
- SEMMA Methodology
- NODES
- BASE and STAT

Ssas

SEMMA

sas.com

SEMMA

Sample
- Partition
- Sampling
- Filter

Explore
- Descriptive Analysis
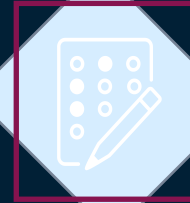- Plots
- Variable selection

Modify
- Transformations
- Imputation
- Outliers

Model
- Supervised-learning
- Unsupervised-learning
- Ensemble

Assessment
- Model tournament
- Lift,Roc etc
- Fit Statistics

Operationalize Models
- Optimized Scorecode

§sas

Complete List of SAS® Enterprise Miner™ 14.3 nodes

SAMPLE	Append	Data Partition	File Import	Filter	Merge	Sample	Input Data

EXPLORE	Association	Graph Explore	Variable Clustering	DMDB	Market Basket	Link Analysis	Variable Selection	SOM/Kohonen
	Cluster			MultiPlot	StatExplore	Path Analysis		Text Mining (7)*

MODIFY	Drop	Impute	Interactive Binning	Principal Components	Replacement	Rules Builder	Transform Variables

MODEL

Decision Tree	AutoNeural	Neural Network	Partial Least Squares	Dmine Regression	DM Neural	Rule Induction	Gradient Boosting	LARS	Two Stage
	Regression				Ensemble			MBR	Model Import

Incremental Response	Survival Analysis	Credit Scoring*	TS Correlation	TS Data Prep	TS Dimension Reduction	TS Decomp.	TS Similarity	TS Exponential Smoothing

HP Explore	HP Regression	HP Transform	HP Variable Selection	HP Neural	HP Decision Tree	HP Data Partition	HP GLM	HP Cluster	HP Prin Comp
HP Impute	HP Text Mine*			HP Forest			HP SVM	HP BNET	

ASSESS	Cutoff	Decisions	Model Comparison	Score	Segment Profile

UTILITY	Control Point	End Groups	Open Source Integration	Reporter	Score Code Export	Metadata	SAS Code	SAS Viya Code	Save Data	Register Metadata
		Start Groups					Ext Demo			

* Add-On

§sas

Demonstrations

Explore data in Enterprise Miner

Introduce variable clustering – remove redundant variable using Proc Varcluster

Modify data before modelling, transformation/imputation

Building models and Assessment->generate scorecode for deployment

§.sas

sas.com