



Activities

Overview

Promote to deployment space

ce 5

Banking Analysis Clustering model

Last modified at Dec 28, 2021 3:37 PM

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Description

No description provided.

Created

Dec 21, 2021 9:31 PM

Туре

spss-modeler_18.2

Model ID

4b20a9d2-5004-4509-a0c6-61...

Software specification

spss-modeler_18.2

Hybrid pipeline software specifications

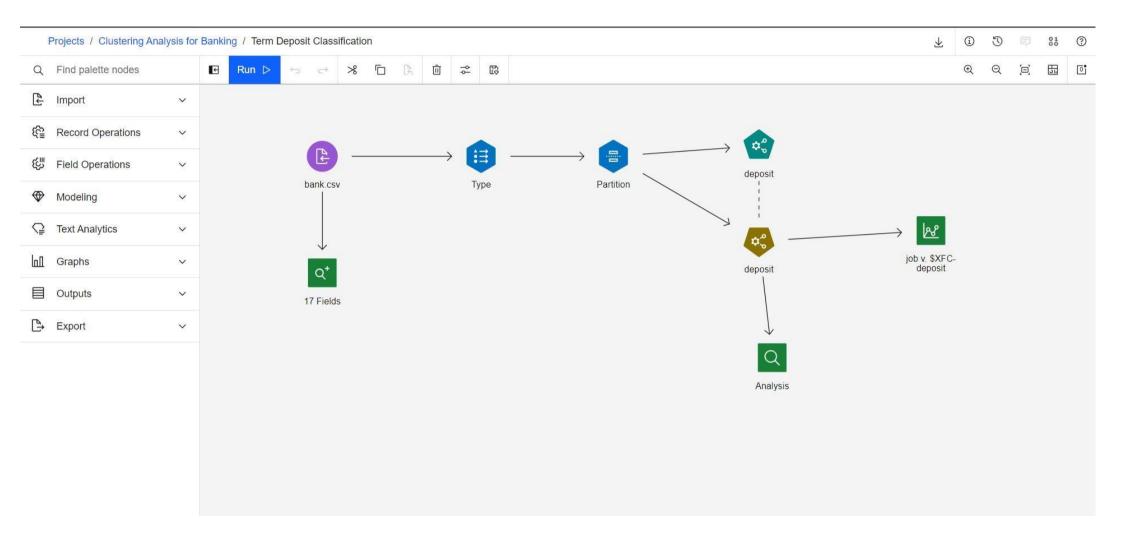
Tags

Add tags to make assets easier to find.

Input duration "integer" education "string" housing "string" job "string" "string" loan marital "string" "string" month "integer" pdays "string" poutcome "integer" previous

Output "integer" duration "string" education housing "string" job "string" "string" loan "string" marital "string" month "integer" pdays "string" poutcome "integer" previous

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Read Values Clear All Values

Q Fin	d in column Field	i e									
	Field	Measure		Role		Value mode	Values	Check			
	# age	Continuous	~	Input	~	Instantiated ∨	18, 95	None	~	©	A
	abc jOb	Nominal	~	Input	~	Instantiated ~	admin., blue-collar,	None	~	(g)	
	abc marital	Nominal	~	Input	~	Instantiated ~	divorced, married,	None	~	(g)	
	abc education	Nominal	~	Input	~	Instantiated ~	primary, secondary	None	~	(6)	
	abc default	Flag	~	None	~	Instantiated ~	no, yes	None	~	(g)	
	# balance	Continuous	~	Input	~	Instantiated ∨	-6847, 81204	None	~	(6)	
	abc housing	Flag	~	Input	~	Instantiated ~	no, yes	None	~	(g)	
	abc loan	Flag	~	Input	~	Instantiated ~	no, yes	None	~	(6)	-

Format

Q Find	l in column Field										
	Field	Measure		Role		Value mode	Values	Check			
	# day	Continuous	~	Input	~	Instantiated ~	1, 31	None	~	(3)	•
	abc month	Nominal	~	Input	~	Instantiated ~	apr, aug, dec, feb,	None	~	(3)	
	# duration	Continuous	~	Input	~	Instantiated ~	2, 3881	None	~	(3)	
	# campaign	Continuous	~	Input	~	Instantiated ~	1, 63	None	~	(3)	
	# pdays	Continuous	~	Input	~	Instantiated ~	-1, 854	None	~	(3)	
	# previous	Continuous	~	Input	~	Instantiated ~	0, 58	None	~	(3)	
	abc poutcome	Nominal	~	None	~	Instantiated ~	failure, other, succ	None	~	(3)	
	abc deposit	Flag	~	Target	~	Instantiated ~	no, yes	None	~	(6)	-

	Field	Sample Graph	Measurement	Min	Max	Mean	Std. Dev	Skewness	Unique	Valid
1	age		Continuous	18	95	41.232	11.913	0.863		11162
2	job		Categorical		% 				12	11162
3	marital		Categorical		()				3	11162
4	education		Categorical						4	11162
5	default		Categorical				==		2	11162
6	balance		Continuous	-6847	81204	1528.539	3225.413	8.225		11162
7	housing		Categorical	<u> </u>	3.00	-	-		2	11162

7	housing	Categorical	 .	1000).CD2		-	2	11162
8	loan	Categorical		-	2 			2	11162
9	contact	Categorical			8 6			3	11162
10	day	Continuous	1	31	15.658	8.421	0.111		11162
11	month	Categorical		-	-		-	12	11162
12	duration	Continuous	2	3881	371.994	347.128	2.144	850	11162
13	campaign	Continuous	1	63	2.508	2.722	5.546		11162
14	pdays	Continuous	-1	854	51.330	108.758	2.450	-	11162

		Unn									
16	poutcome			tegorical		-				4	11162
17	deposit		Car	tegorical	-		-			2	11162
	Field	Measurement	Outliers	Extremes	Action	Impute Missing	Method	% Complete	Valid Records	Null Value	Empty String
1	age	Continuous	132	0	None	Never	Fixed	100.000	11162	0	0
2	job	Categorical	-	1575	13 0	Never	Fixed	100.000	11162	0	0
3	marital	Categorical	1	i==		Never	Fixed	100.000	11162	0	0
4	education	Categorical	-	1 7.	13 .	Never	Fixed	100.000	11162	0	0
5	default	Categorical	124			Never	Fixed	100.000	11162	0	0
6	balance	Continuous	99	74	None	Never	Fixed	100.000	11162	0	0

7	housing	Categorical		-	-	Never	Fixed	100.000	11162	0	0
8	loan	Categorical	22			Never	Fixed	100.000	11162	0	0
9	contact	Categorical	<i>6</i> 70		1000	Never	Fixed	100.000	11162	0	0
10	day	Continuous	0	0	None	Never	Fixed	100.000	11162	0	0
11	month	Categorical				Never	Fixed	100.000	11162	0	0
12	duration	Continuous	179	22	None	Never	Fixed	100.000	11162	0	0
13	campaign	Continuous	136	74	None	Never	Fixed	100.000	11162	0	0
14	pdays	Continuous	149	27	None	Never	Fixed	100.000	11162	0	0
15	previous	Continuous	163	57	None	Never	Fixed	100.000	11162	0	0
16	poutcome	Categorical	-	-	-	Never	Fixed	100.000	11162	0	0
17	deposit	Categorical			No.	Never	Fixed	100.000	11162	0	0

View Output: Analysis of [deposit]

Results for output field deposit

○ Comparing \$XF-deposit with deposit

'Partition'	1_Training		2_Testing	
Correct	6,918	88.81%	2,857	84.73%
Wrong	872	11.19%	515	15.27%
Total	7,790		3,372	

View Model: deposit

Auto Classifier ©

Models

Auto Classifier - Models ①

TARGET : DEPOSIT

USE	MODEL NAME	ESTIMATOR V	TIME (MINS)	NO. FIELDS USED	ACCURACY	ACCUMULATED ACCURACY	AREA UNDER CURVE	ACCUMULATED AUC	RECALL	PRECISION	ACTI
	Random Trees 1	Random Trees	1	14	83.096	83.096	0.893	0.893	0.860	0.800	· t
~	Logistic regression	Nominal Regression	<1	14	80.042	80.042	0.885	0.885	0.765	0.805	Ī
	<u>C5 1</u>	C5.0	<1	13	85.024	85.024	0.897	0.897	0.878	0.819	Ī
~	Bayesian Network 1	BayesNet	<1	14	78.529	78.529	0.835	0.835	0.708	0.819	t

View Model: deposit

Auto Classifier ①

Models

Auto Classifier - Models ①

TARGET : DEPOSIT

USE	MODEL NAME	ESTIMATOR ▼	BUILD TIME (MINS)	NO. FIELDS USED	ACCURACY	ACCUMULATED ACCURACY	AREA UNDER CURVE	ACCUMULATED AUC	RECALL	PRECISION
~	XGBoost Tree 1	XGBoost Binary Classification Model	1	14	83.482	83.482	0.906	0.906	0.846	0.813
	Random Trees 1	Random Trees	1	14	83.096	83.096	0.893	0.893	0.860	0.800
Z	Logistic regression 1	Nominal Regression	<1	14	80.042	80.042	0.885	0.885	0.765	0.805
~	C5 1	C5.0	< 1	13	85.024	85.024	0.897	0.897	0.878	0.819

