

Q What assets are you looking for?

Data assets

0 assets selected.

Drop files here or [browse](#) for files to upload.

<input type="checkbox"/>	Name	Type	Created by	Last modified	⌵
<input type="checkbox"/>	clv bank.csv	Data Asset	Sanyam Jain	Dec 21, 2021, 12:22 PM	

Models

Watson Machine Learning models

Name	Type	Software specification	Last modified	⌵
Banking Analysis Clustering model	spss-modeler 18.2	spss-modeler 18.2	Dec 21, 2021	

Modeler flows

New Modeler flow +

Name 

Models

[Load](#)[Files](#)[Catalog](#)

Watson Machine Learning models

Name	Type	Software specification	Last modified		Download files here or link to files to upload.
Banking Analysis Clustering model	Classification model	SPSS+R	Dec 21, 2021		

Modeler flows

[New "Modeler flow"](#)

Name	Type	Created by	Last modified	
Term Deposit Classification	SPSS Modeler	Sanyam Jain	Dec 22, 2021, 11:47AM	

Data Refinery flows

[New Data Refinery flow](#)

Name	Type	Created by	Last modified	
bank.csv_flow	Data Refinery flow	Sanyam Jain	Dec 21, 2021, 12:16 PM	



Steps [@](#) [Use a code template to add a step](#)

	Data	Profile	Visualizations				
	age Integer	String	String	Sfring	String	integer	String
1	59	admin.	married	secondary	no	2343	yes
2	56	admin.	married	secondary	no	45	no
3	41	technician	married	secondary	no	1270	yes
4	55	services	married	secondary	no	2476	yes
5	54	admin.	married	tertiary	no	184	no
6	42	management	single	tertiary	no	0	yes
7	56	management	married	tertiary	no	830	yes
8	60	retired	divorced	secondary	no	545	yes
9	37	technician	married	secondary	no	1	yes
10	28	services	single	secondary	no	5090	yes
11	38	admin.	single	secondary	no	100	yes
12	30	btue-collar	married	secondary	no	309	yes
13	29	management	married	tertiary	no	199	yes
14	46	btue-collar	single	tertiary	no	460	yes

SOURCE FILE: bank.csv SAMPLE SIZE: First 10000 rows

Information ✕

Details Help

Edit 

LOCATION
Clustering Analysis for Banking

DATA REFINERY FLOW NAME
bank.csv_flow

Enter a description of the Data Refinery

STEPS
1

DATA REFINERY FLOW OUTPUT

Location

Banking Analysis Clustering model

Promote to deployment space

Overview Activities

Input

Column	Type
pe	"integer"
balance	"integer"
campaign	"integer"
contact	"string"
day	"integer"
default	"string™"
deposit	"string"
duration	"integer"
education	"stringp™"

Output

Column	Type
\$XF-deposit	"string™"
\$XFC-deposit	"double"
Partition	"string™"
age	"integer"
balance	"integer"
campaign	"integer"
contact	"string"
day	"integer"
default	"stringp™"



Banking Analysis Clustering model

Lost modified at Dec 28, 2P27 J:3 Z PM

Description
No description provided.

Created
Dec 21, 2021 9:31PM

Type
spss-modeler 18.2

Model ID
4b20a9d2-5004-4509-a0c6-61... [g

Software specification
spss-modeler 18.2

Hybrid pipeline software specifications

Tags
Add tags to make assets easier to find.



Banking Analysis Clustering model

Overview Activities

Input

duration	"integer"
education	"string™"
housing	"string™"
job	"string"
loan	"string"
marital	"string™"
month	"string™"
pdays	"integer"
poutooive	"string"
previous	"integer"

Output

duration	"integer"
education	"string"
housing	"string™"
job	"string"
loan	"string"
marital	"string™"
month	"string™"
pdays	"integer"
poutcoive	"string"
previous	"integer"



Banking Analysis Clustering model

Last modified at Dec 28, 2027 3:37 PM

Description
No description provided.

Created
Dec 21, 2021 9:31PN

Type
spss-modeler 18.2

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

Software specification
spss-modeler 18.2

Hybrid pipeline software specifications

Tags 6
Addtags to make assets easier to find.



Q Find palette nodes



/•- ImpOrt

Record Operations v

Field Operations v

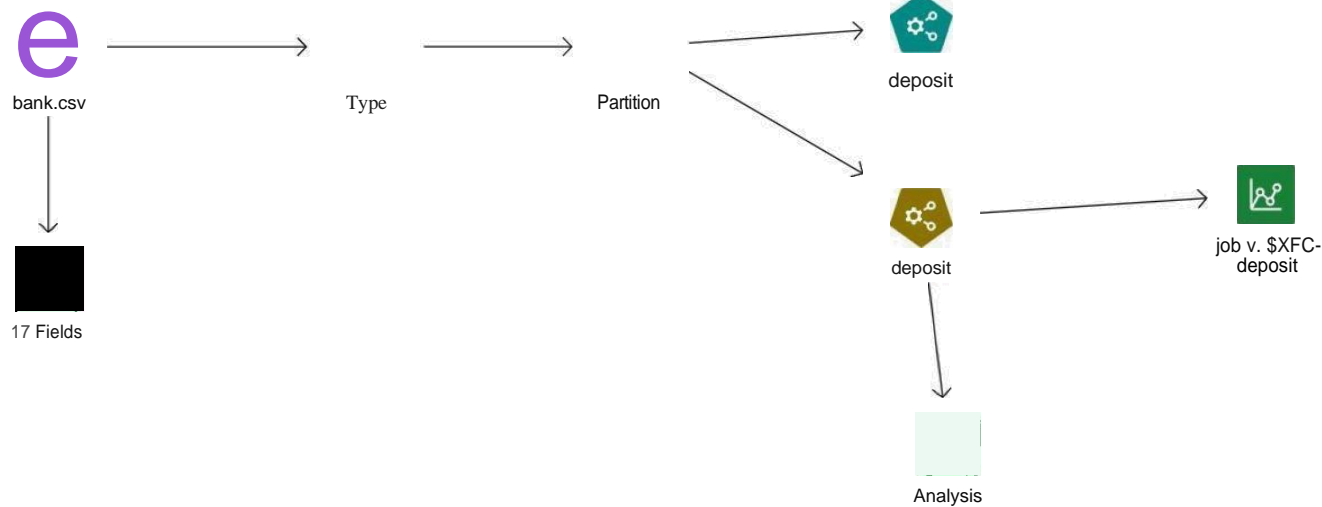
@ Modeling v

Text Analytics v

@ Graphs v

@ Outputs

e• Export v



Read Values

Clear API Values

Find in column Field

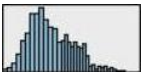


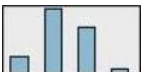



<input type="checkbox"/>	Field	Measure	Role	Value mode	Values	Check	
<input type="checkbox"/>	tt age	Continuous	Input	Instantiated	18.95	None	@
<input type="checkbox"/>	abc job	Nominal	Input	Instantiated	admin.. blue-collar.. . .	None	@
<input type="checkbox"/>	abc marital	Nominal	Input	Instantiated	divorced. married, . . .	None	@
<input type="checkbox"/>	abc education	Nominal	Input	Instantiated	primary. secondary. . .	None	@
<input type="checkbox"/>	abc default	Flag	None	Instantiated	no. yes	None	@
<input type="checkbox"/>	@ balance	Continuous	Input	Instantiated	-6847.81204	None	@
<input type="checkbox"/>	abc housing	Flag	Input	Instantiated	no. yes	None	@
<input type="checkbox"/>	abt loan	Flag	Input	Instantiated	no. yes	None	@

Format




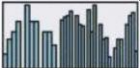

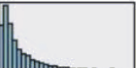
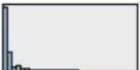
@ F I L I « T O L < t 1 J ! º F i e < ::

<input type="checkbox"/>	Field	Measure	Role	Value mode	Values	Check	
<input type="checkbox"/>	tt day	Continuous	Input	Instantiated	1. 31	None	@ “
<input type="checkbox"/>	abc month	Nominal	Input	Instantiated	apr. aug. dec. feb. . .	None	@
<input type="checkbox"/>	t duration	Continuous	Input	Instantiated	2. 3881	None	@
<input type="checkbox"/>	t campaign	Continuous	Input	Instantiated	1. 63	None	@
<input type="checkbox"/>	tt pdays	Continuous	Input	Instantiated	-1. 854	None	@
<input type="checkbox"/>	tt previous	Continuous	Input	Instantiated	0.58	None	@
<input type="checkbox"/>	abc pOutcome	Nominal	None	Instantiated	failure, other. succ.. .	None	@
<input type="checkbox"/>	abc deposit	Flag	Target	Instantiated	no. yes	None	@

View Output: 17 Fields

	Field	Sample Graph	Measurement	Min	Max	Mean	Std. Dev	Skewness	Unique	Valid
1	age		Continuous	18	95	44 .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	B1204	1528.539	3225.413	8.225		11162
7	housing		Categorical						2	11162

View Output: 17 Fields

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

View Output: 17 Fields

16	poutcome		Categorical							4	11162
17	deposit		Categorical							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				Never	Fixed	100000	11162	0	0
3	mama	Categorical				Never	Fixed	100.000	11162	0	0
4	education	Categorical				Never	Fixed	100000	11162	0	0
5	default	Categorical				Never	Fixed	100.000	11162	0	0
6	balance	Continuous	99	74	None	Never	Fixed	100000	11162	0	0

View Output: 17 Fields

7	housing	Categorical	--		-	Never	Fixed	100.000	11162	0	0
8	loan	Categorical		--		Never	Fixed	100.000	11162	0	0
9	contaci	Categorical	-			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	Conlinuous	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	63	57	None	Never	Fixed	100.000	11162	0	0
16	poutcome	Categorical	--			Never	Fixed	100.000	11162	0	0
17	deposii	Categorical	--		-	Never	Fixed	100.000	11162	0	0

View Output: Analysis of [deposit]

@ Results for output field deposit

0— Comparing \$XF-deposit with deposit

'Partition'	1_TLaining		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 O

Auto Classifier - Models O

Models

TARGET: DEPOSIT

USE	MODEL NAME	ESTIMATOR	BUILD TIME (MINS)	DCI. FIELDS USED	ACCURACY	ACCUMULATED ACCURACY	AREA UNDER CERYT	ACCUMULATED AUC	RECALL	PRECISION	ACTI
<input checked="" type="checkbox"/>	Random Trees 1	Ranrlom Trees	1	14	83.096	83.096	0.893	0.893	0.860	0.800	
<input checked="" type="checkbox"/>	Logistic regression 1	Nominal Regreseion	<1	14	80.042	80.042	0.885	0.88J	0.765	0.80N	
<input checked="" type="checkbox"/>	C.S 1	C10	< 1	13	85.024	85.024	0.897	0.897	0.875	0.819	
<input checked="" type="checkbox"/>	Bayesian Network 1	BayesNet	< 1	14	78.529	78.529	0.835	0.835	0.705	0.819	

0.8973571

View Model: deposit

Auto ClassifierO

Models

Auto Classifier - Models O

TARGET: DEPOSIT

USE	MODEL NAME	ESTOofATOR P	BUILD TIME (MINS)	NO. FIELDS USED	ACCURACY	ACCUMULATED ACCURACY	AREA UNDER CURVE	ACCUMULATED AUC	RECALL	PRECISION
<input checked="" type="checkbox"/>	XGBoost Tree 1	XGBoost Binary Classificahon Model	1	14	83.482	83.482	0.906	0.906	0.846	0.813
<input checked="" type="checkbox"/>	Random Trees 1	Random Trees	1	14	53.096	83.096	0.893	0.893	0.860	0.800
reeressiou 1	Login <input checked="" type="checkbox"/>	Nominal Reereseion	< 1	14	50.042	80.042	0.885	0.885	0.765	0.805
<input checked="" type="checkbox"/>	C5 1	C?.0	<1	13	85.0 4	85.024	0.897	0.897	0.878	0.819

