

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	Vishal Yadav	April 21, 2022, 12:22 PM	


Models

Watson Machine Learning models Software specification

Name	Type		Last modified	⌵
Banking Analysis Clustering model	spss-modeler 18.2	spss-modeler 18.2	April 21, 2022	

Modeler flows

New Modeler flow +

Name 

Models

Watson Machine Learning models

Name	Type	Software specification	Last modified		Download files here or link to upload files.
Banking Analysis Clustering model	SPSS model. r 18.2	SPSS--roJeter 18.2	April 21,2022		

Modeler flows

New "Modeler flow".

Name	Type	Created by	Last modified	
Term Deposit Classification	SPSS Modeler	Vishal Yadav	April 22,2022, 11:47AM	

Data Refinery flows

[New Data Refinery flow](#)

Name	Type	Created by	Last modified	
bank.csv_flow	Data Refinery flow	Vishal Yadav	april 22, 2022, 12:06 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	blue-collar	married	secondary	no	309	yes
13	29	management	married	tertiary	no	199	yes
14	46	blue-collar	single	tertiary	no	460	yes

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

Information X

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

Overview Activities

Input

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

Output

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

Promote to deployment space



Banking Analysis Clustering model

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

Description
No description provided.

Created
April 22, 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
Addtagstomakeassets easier tofind.



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
April 22, 2022 9:31PN

Type
spss-modeler 18.2

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

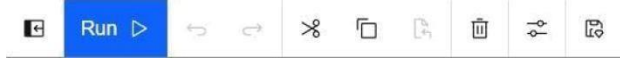
Software specification
spss-modeler 18.2

Hybrid pipe!ine software specifications

Tags
Addtagstomakeassets easier tofind. 6



Q Find palette nodes



/•- ImpOrt

Record Operations v

Field Operations v

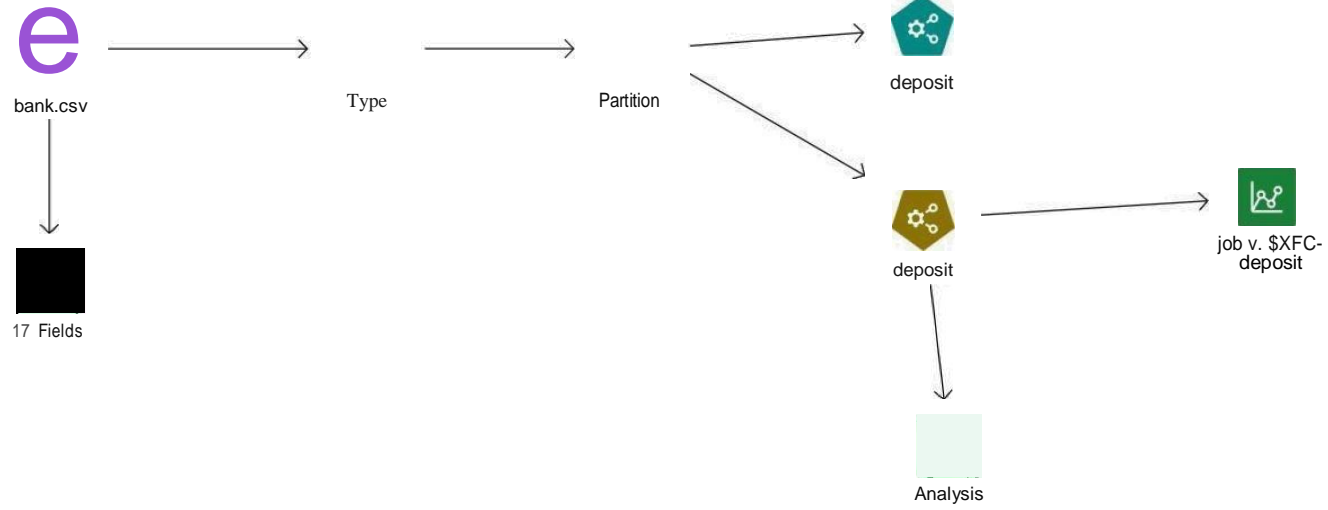
@ Modeling v

Text Analytics v

@ Graphs v

@ Outputs

e• Export v



Read Values Clear API Values

Q Find in column Field

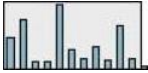



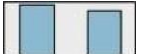
<input type="checkbox"/>	Field	Measure	Role	Value mode	Values	Check
<input type="checkbox"/>	tt age	Continuous	Input	Instantiated	18. 95	None @
<input type="checkbox"/>	abc job	Nominal	Input	Instantiated	admin.. blue-collar.. . .	None @
<input type="checkbox"/>	abc marital	Nominal	Input	Instantiated	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




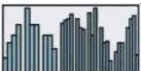
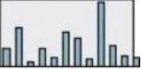

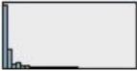

@ F I L I « T O L < t 1 J ! ° F i e < ::

<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	1000000	11162	0	0
3	mama	Categorical				Never	Fixed	100.000	11162	0	0
4	education	Categorical				Never	Fixed	1000000	11162	0	0
5	default	Categorical				Never	Fixed	100.000	11162	0	0
6	balance	Continuous	99	74	None	Never	Fixed	1000000	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 CURVE	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	

View Model: deposit

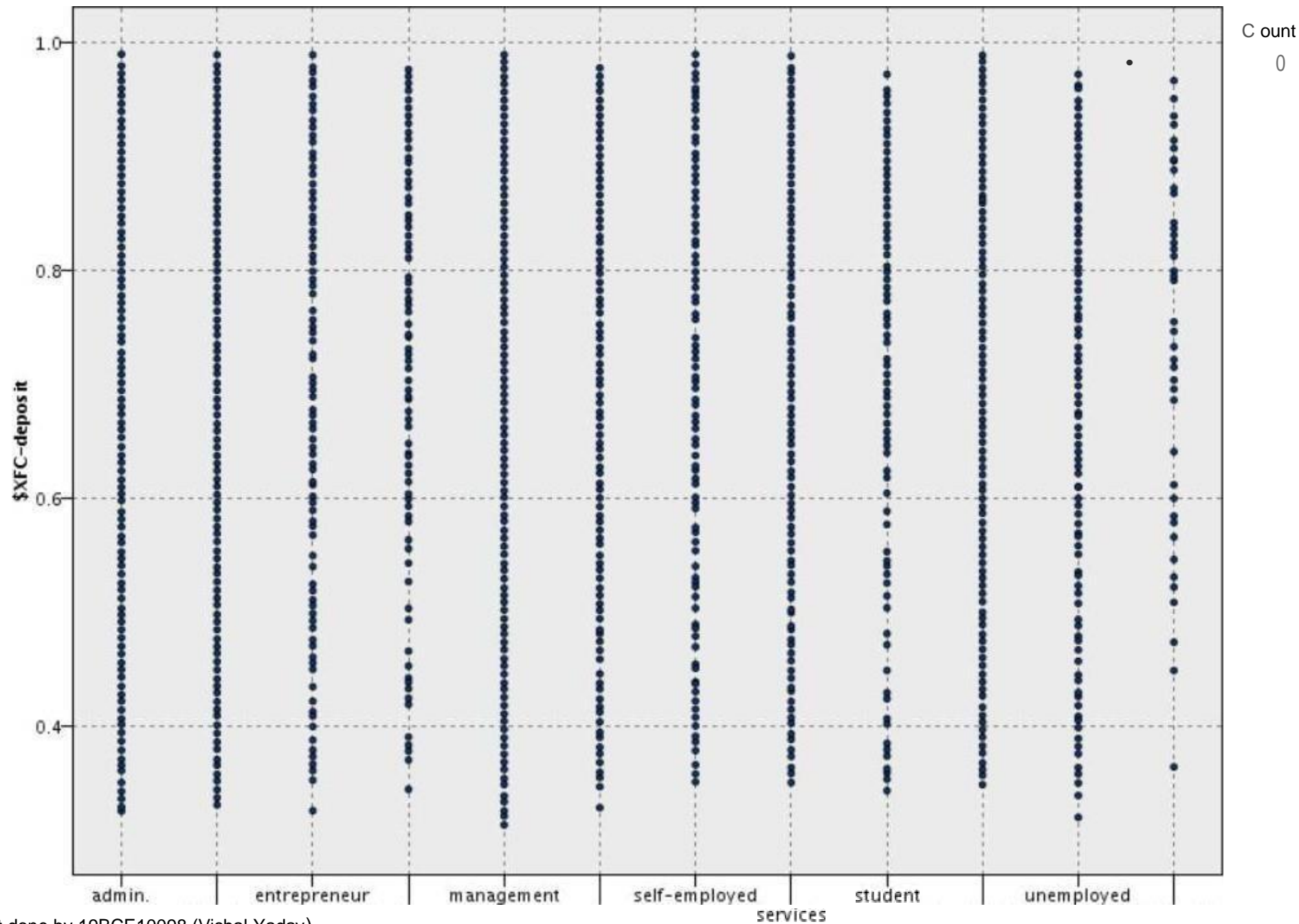
Auto ClassifierO

Models

Auto Classifier - Models O

TARGET: DEPOSIT

USE	MODEL NAME	ESTOFATOR	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



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