



## DATA ANALYTICS

### Assignment-3

**NAME:** Dhinesh.B

**REG NO:** 19BEC0684

**CAMPUS:** Vellore

### Classification of term deposit buyers for retail banking

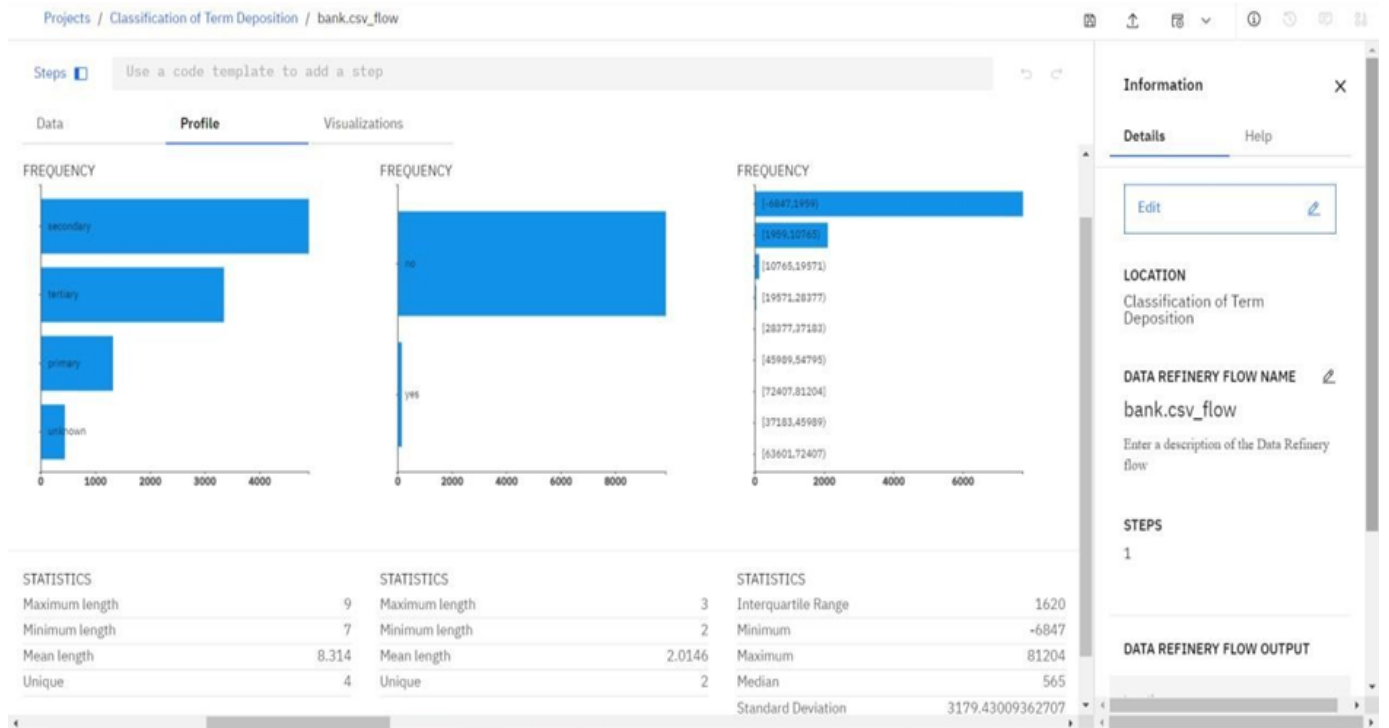
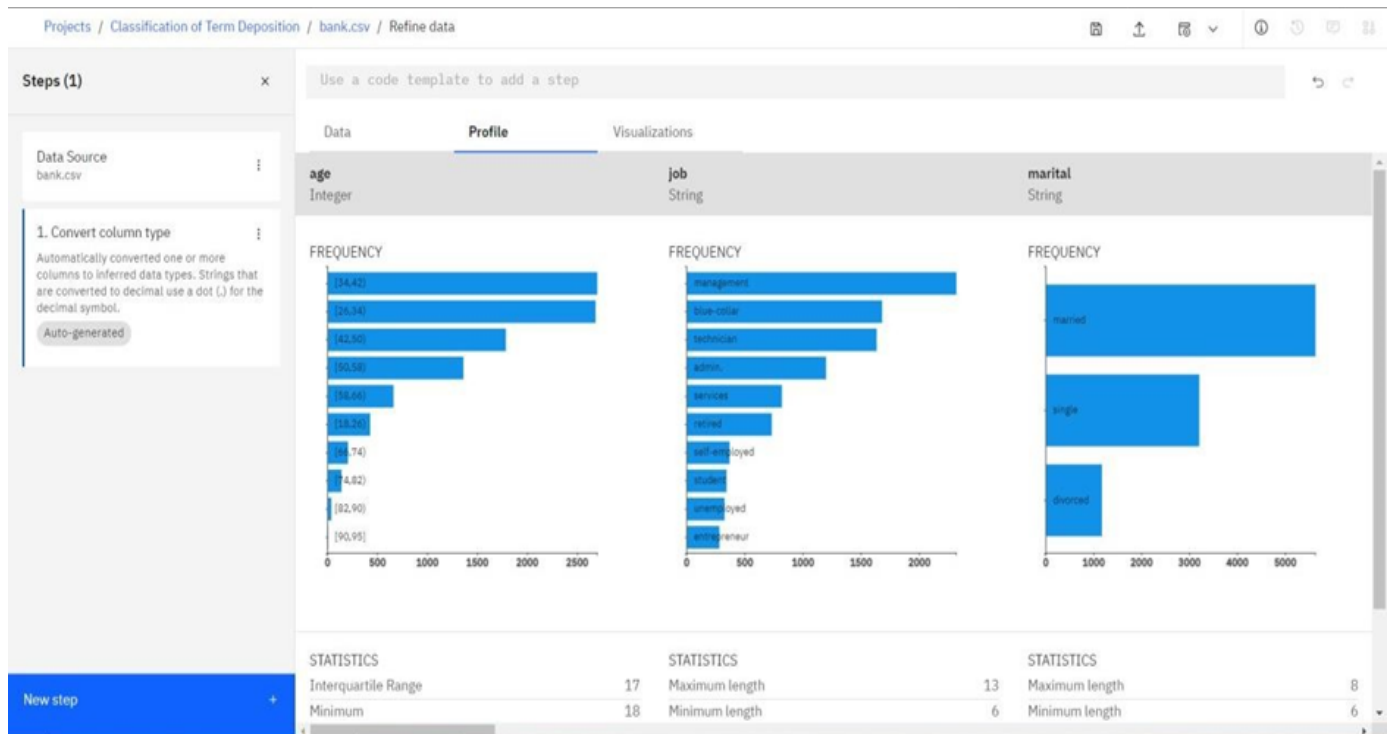
My projects / Classification of Term Deposition / bank.csv

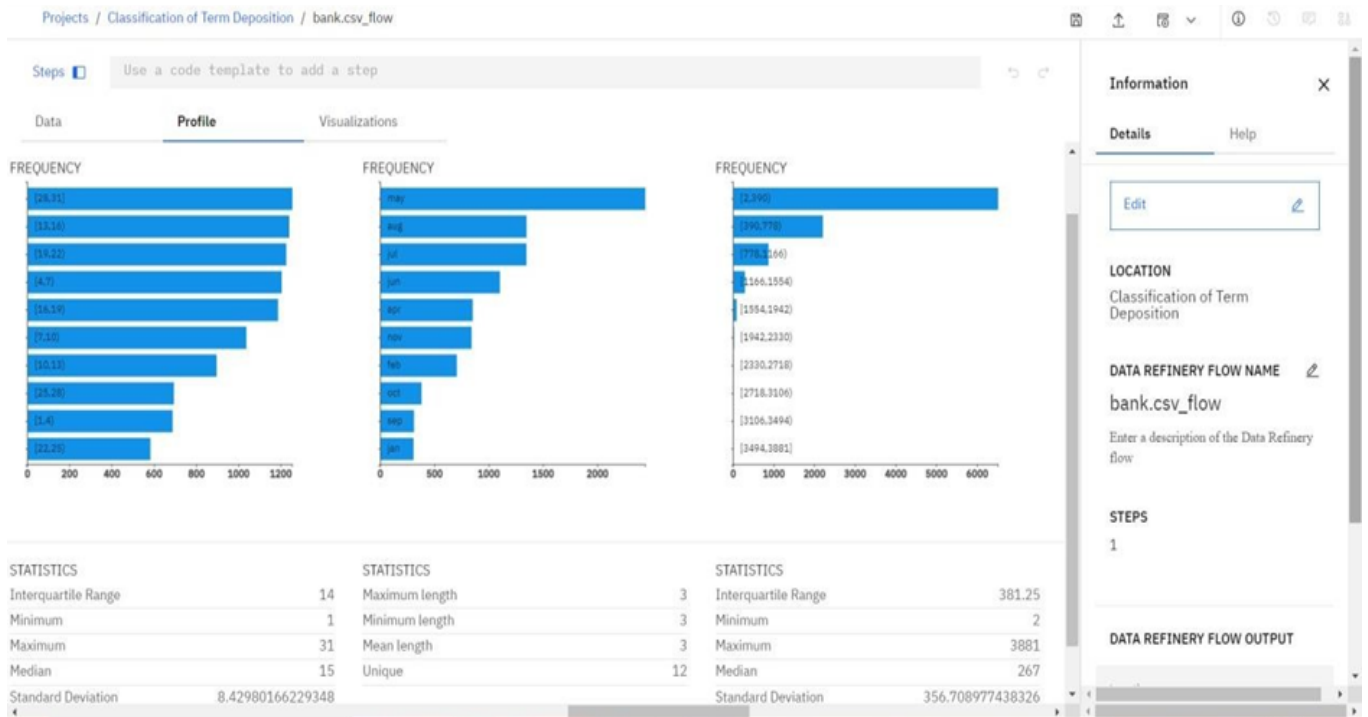
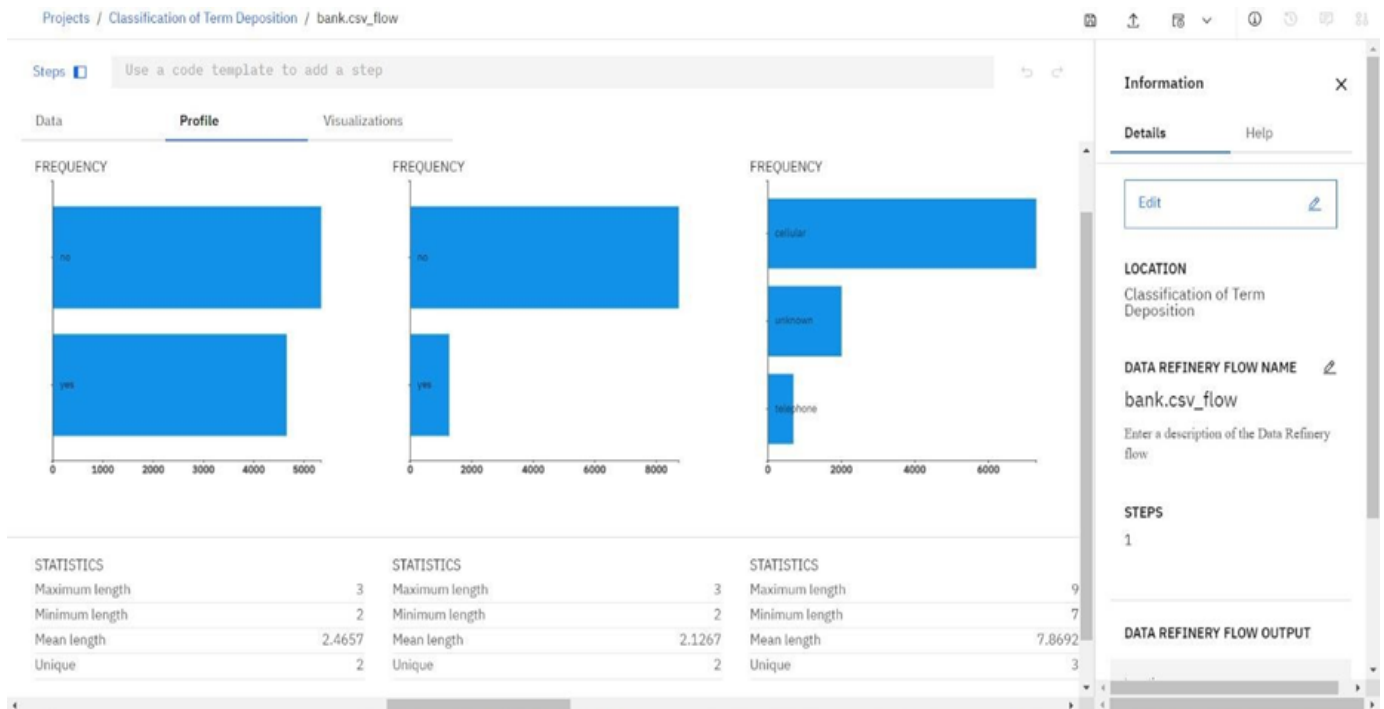
Preview Activities

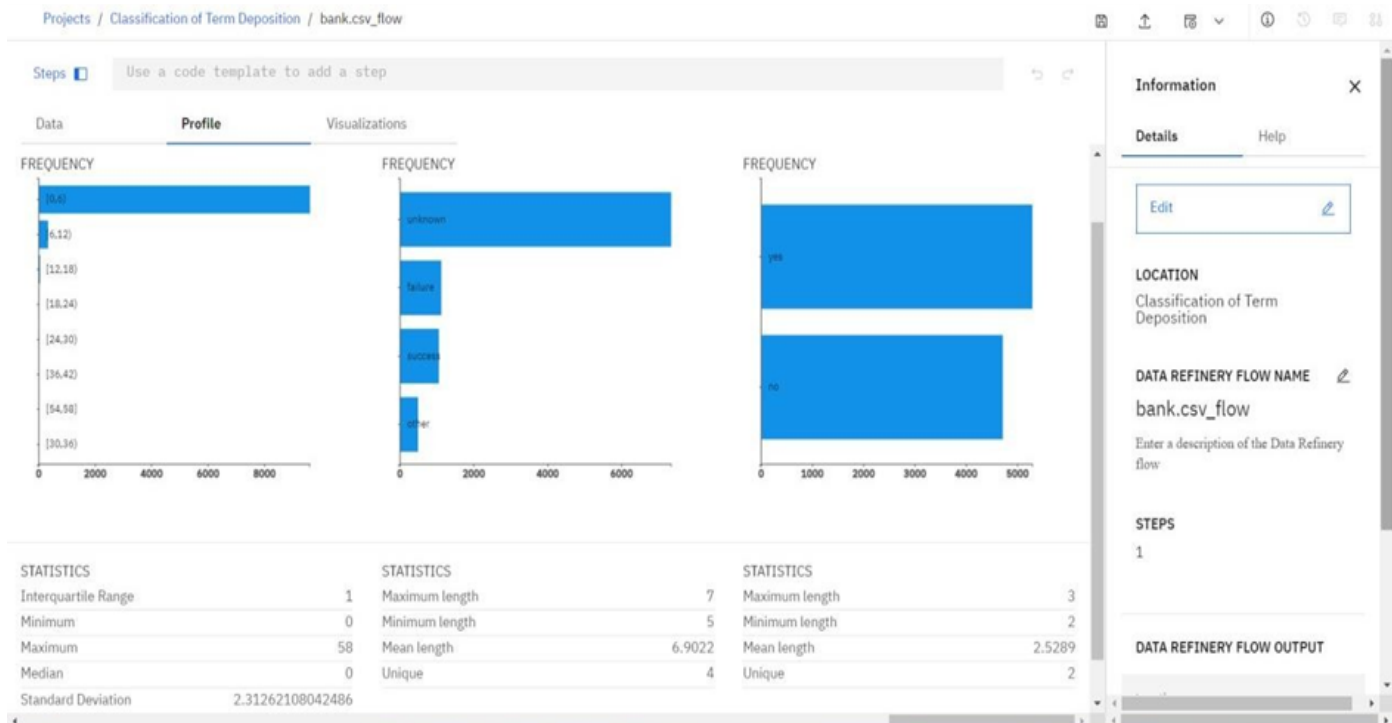
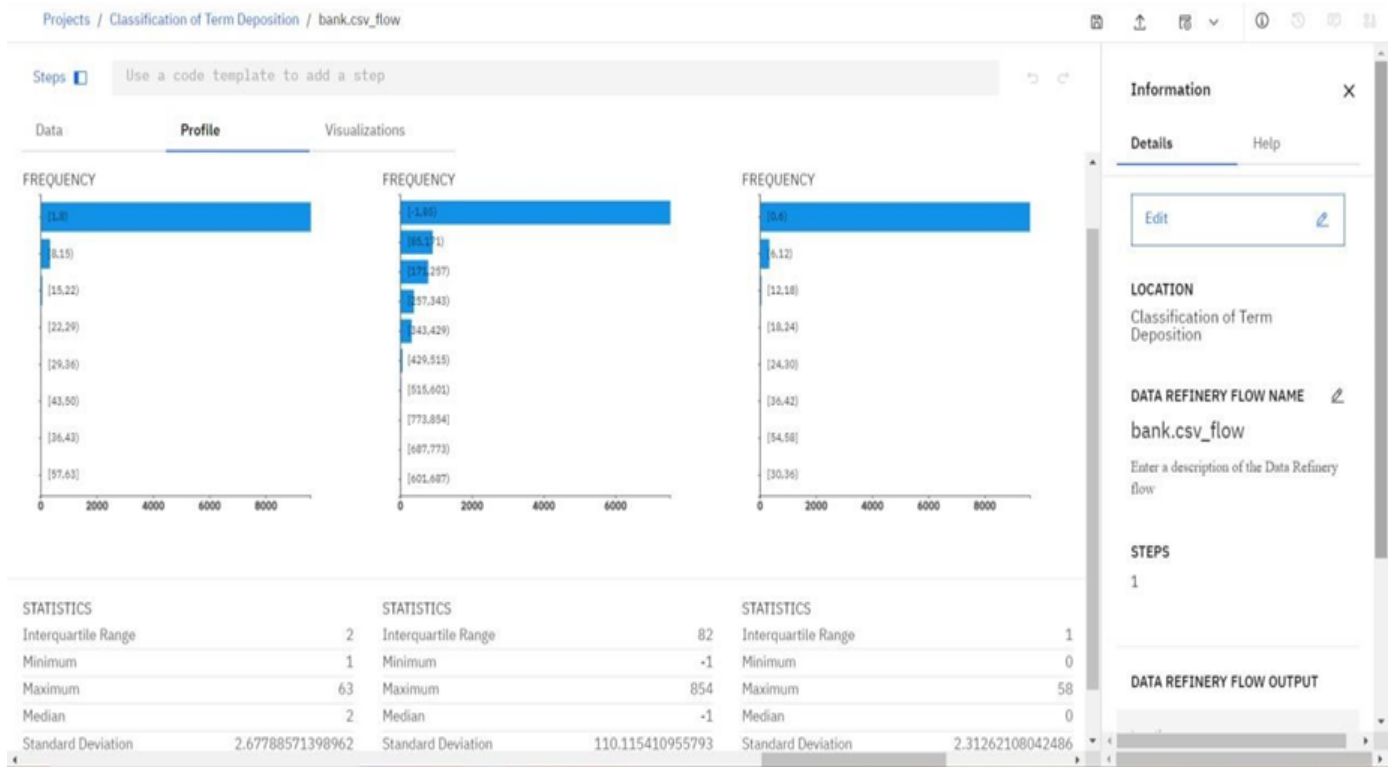
Schema: 17 Columns  
The preview includes only a limited set of columns and rows. ⓘ

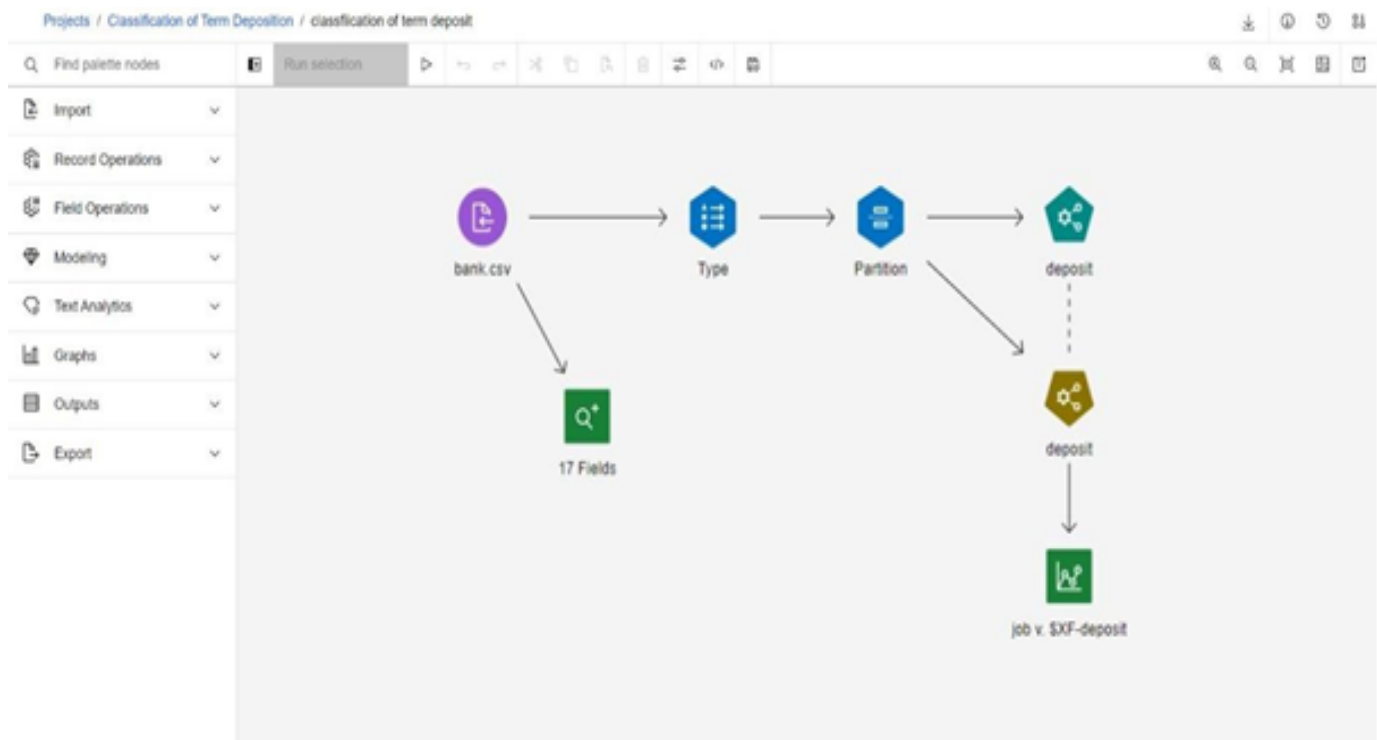
Last refresh: 1 minute ago [Refine](#)

age String	job String	marital String	education String	default String	balance String	housing String	loan String	contact String	day String	month String	duration String	campaign String
59	admin.	married	secondary	no	2343	yes	no	unknown	5	may	1042	1
56	admin.	married	secondary	no	45	no	no	unknown	5	may	1467	1
41	technician	married	secondary	no	1270	yes	no	unknown	5	may	1389	1
55	services	married	secondary	no	2476	yes	no	unknown	5	may	579	1
54	admin.	married	tertiary	no	184	no	no	unknown	5	may	673	2
42	management	single	tertiary	no	0	yes	yes	unknown	5	may	562	2
56	management	married	tertiary	no	830	yes	yes	unknown	6	may	1201	1
60	retired	divorced	secondary	no	545	yes	no	unknown	6	may	1030	1
37	technician	married	secondary	no	1	yes	no	unknown	6	may	608	1
28	services	single	secondary	no	5090	yes	no	unknown	6	may	1797	1









Projects / Classification of Term Deposition / classification of term deposit

View Output: Data Audit of [17 fields] Compare

	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	--	--	--	--	--	2	11162

Projects / Classification of Term Deposition / classification of term deposit

View Output: Data Audit of [17 fields]

Compare

	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	100.000	11162	0	0
3	marital	Categorical	--	--	--	Never	Fixed	100.000	11162	0	0
4	education	Categorical	--	--	--	Never	Fixed	100.000	11162	0	0
5	default	Categorical	--	--	--	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	--	--	--	Never	Fixed	100.000	11162	0	0
9	contact	Categorical	--	--	--	Never	Fixed	100.000	11162	0	0
10	day	Continuous	0	0	None	Never	Fixed	100.000	11162	0	0

Type

Type

Read Values

Clear All Values

Find in column Field

<input type="checkbox"/>	Field	Measure		Role		Value mode	Values	Check
<input type="checkbox"/>	# age	Continuous	▼	None	▼	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	▼	None	▼	Instantiated ▼	primary, secondar...	None ▼
<input type="checkbox"/>	abc default	Flag	▼	None	▼	Instantiated ▼	no, yes	None ▼
<input type="checkbox"/>	# balance	Continuous	▼	None	▼	Instantiated ▼	-6847, 81204	None ▼
<input type="checkbox"/>	abc housing	Flag	▼	None	▼	Instantiated ▼	no, yes	None ▼
<input type="checkbox"/>	abc loan	Flag	▼	None	▼	Instantiated ▼	no, yes	None ▼

Cancel

Save

Type ⓘ

## Type

Find in column Field

<input type="checkbox"/>	Field	Measure	Role	Value mode	Values	Check
<input type="checkbox"/>	abc contact	Nominal	None	Instantiated	cellular, telephone...	None
<input type="checkbox"/>	# day	Continuous	None	Instantiated	1, 31	None
<input type="checkbox"/>	abc month	Nominal	None	Instantiated	apr, aug, dec, feb, ...	None
<input type="checkbox"/>	# duration	Continuous	None	Instantiated	2, 3881	None
<input type="checkbox"/>	# campaign	Continuous	None	Instantiated	1, 63	None
<input type="checkbox"/>	# pdays	Continuous	None	Instantiated	-1, 854	None
<input type="checkbox"/>	# previous	Continuous	None	Instantiated	0, 58	None
<input type="checkbox"/>	abc poutcome	Nominal	None	Instantiated	failure, other, succ...	None

Format

Type ⓘ

## Type

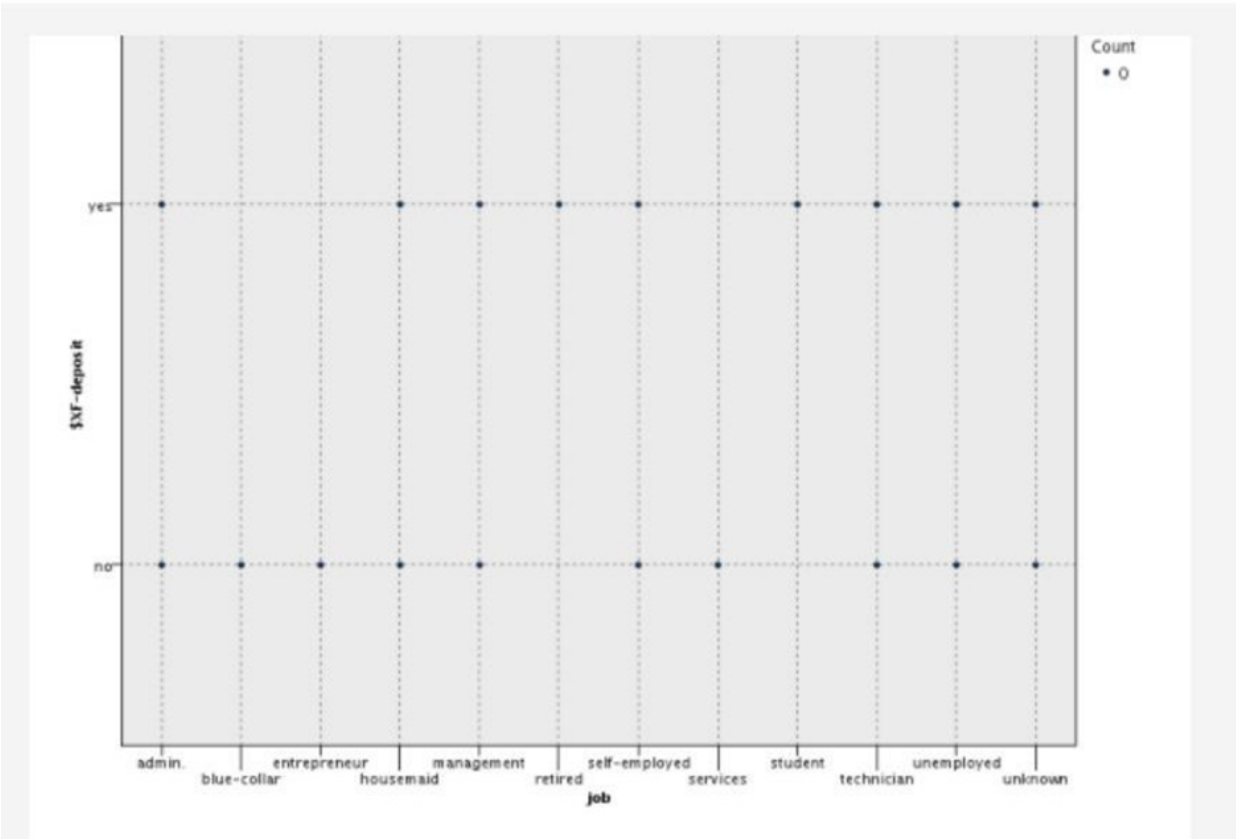
Find in column Field

<input type="checkbox"/>	Field	Measure	Role	Value mode	Values	Check
<input type="checkbox"/>	# day	Continuous	None	Instantiated	1, 31	None
<input type="checkbox"/>	abc month	Nominal	None	Instantiated	apr, aug, dec, feb, ...	None
<input type="checkbox"/>	# duration	Continuous	None	Instantiated	2, 3881	None
<input type="checkbox"/>	# campaign	Continuous	None	Instantiated	1, 63	None
<input type="checkbox"/>	# pdays	Continuous	None	Instantiated	-1, 854	None
<input type="checkbox"/>	# previous	Continuous	None	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

Format

Cancel

Save



View Model: deposit

x

Auto Classifier - Models											
TARGET : DEPOSIT											
USE	MODEL NAME	ESTIMATOR	BUILD TIME (MINS)	NO. FIELDS USED	ACCURACY	ACCUMULATED ACCURACY	AREA UNDER CURVE	ACCUMULATED AUC	RECALL	PRECISION	ACTIONS
<input checked="" type="checkbox"/>	<a href="#">Random Trees.1</a>	Random Trees	<1	2	57.295	57.295	0.595	0.595	0.581	0.548	
<input checked="" type="checkbox"/>	<a href="#">LSVM.1</a>	Linear SVM	<1	2	57.414	57.414	0.609	0.609	0.408	0.573	
<input checked="" type="checkbox"/>	<a href="#">Tree-AB.1</a>	CHAID	<1	2	57.622	57.622	0.605	0.605	0.378	0.583	
<input checked="" type="checkbox"/>	<a href="#">CHAID.1</a>	CHAID	<1	2	57.622	57.622	0.605	0.605	0.378	0.583	
<input checked="" type="checkbox"/>	<a href="#">C5.1</a>	C5.0	<1	2	57.444	57.444	0.587	0.587	0.388	0.578	