

# DATA ANALYTICS

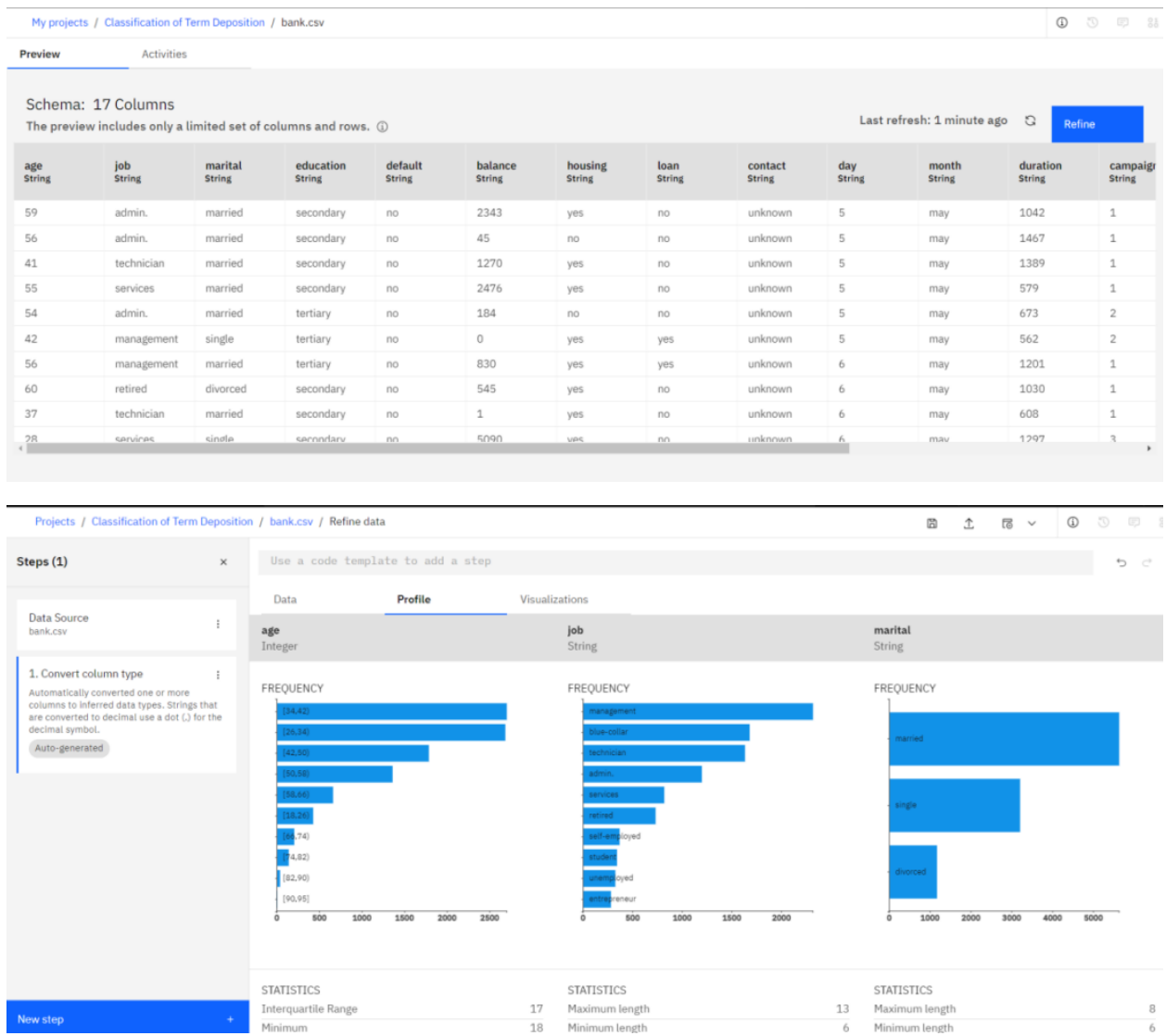
## ASSIGNMENT – 3

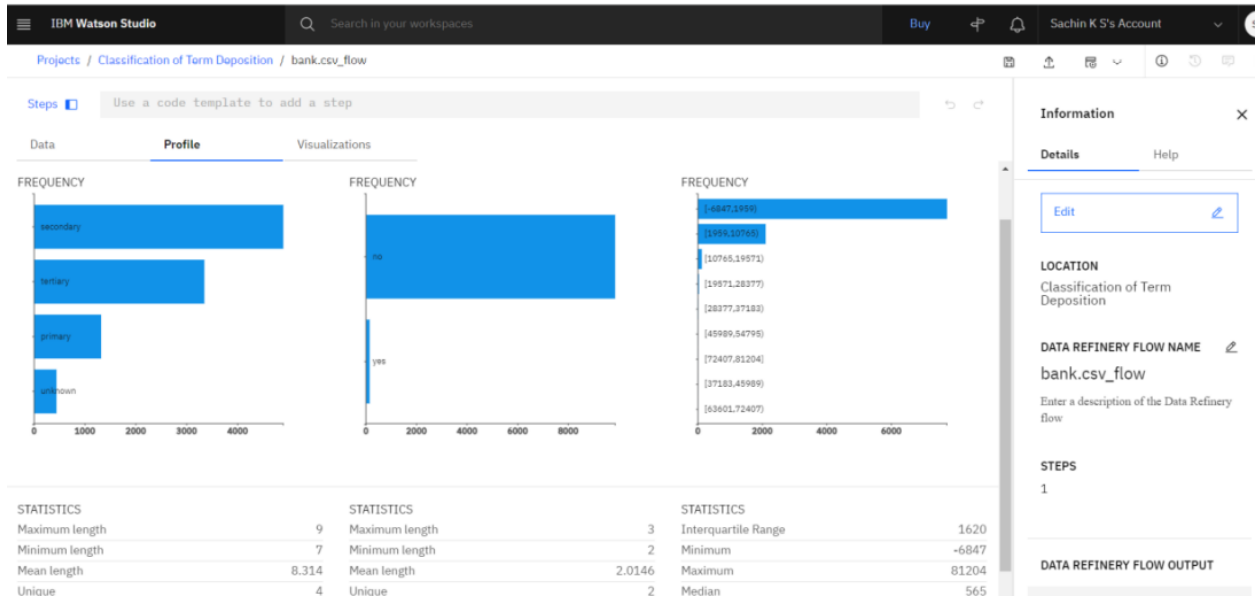
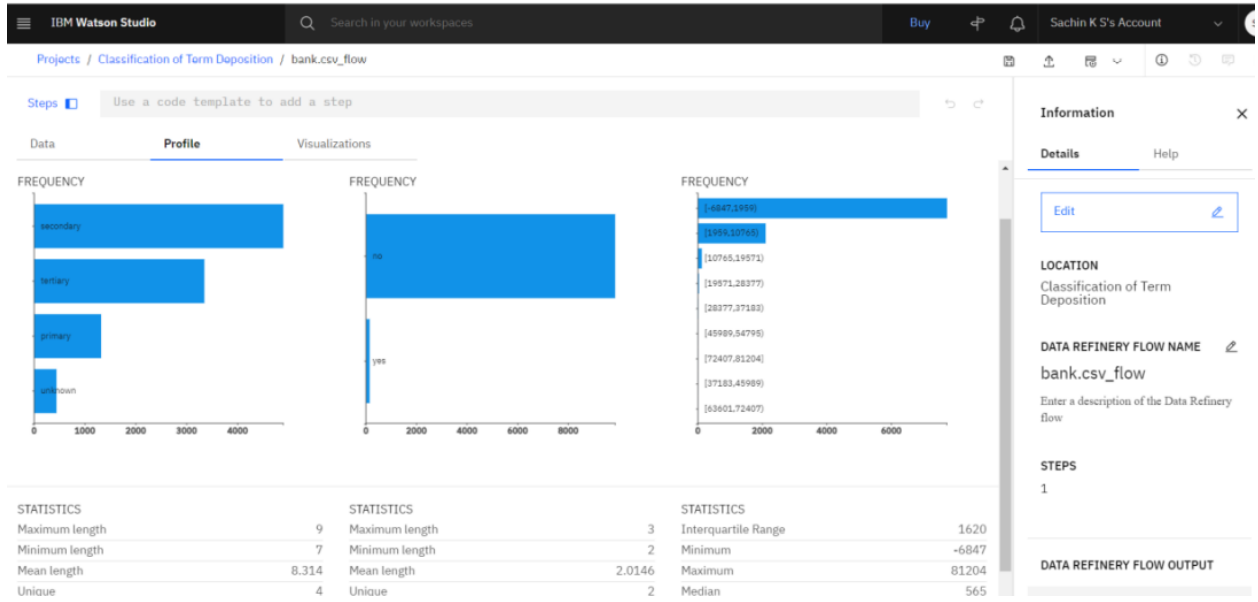
### Classification of term deposit buyers for retail banking

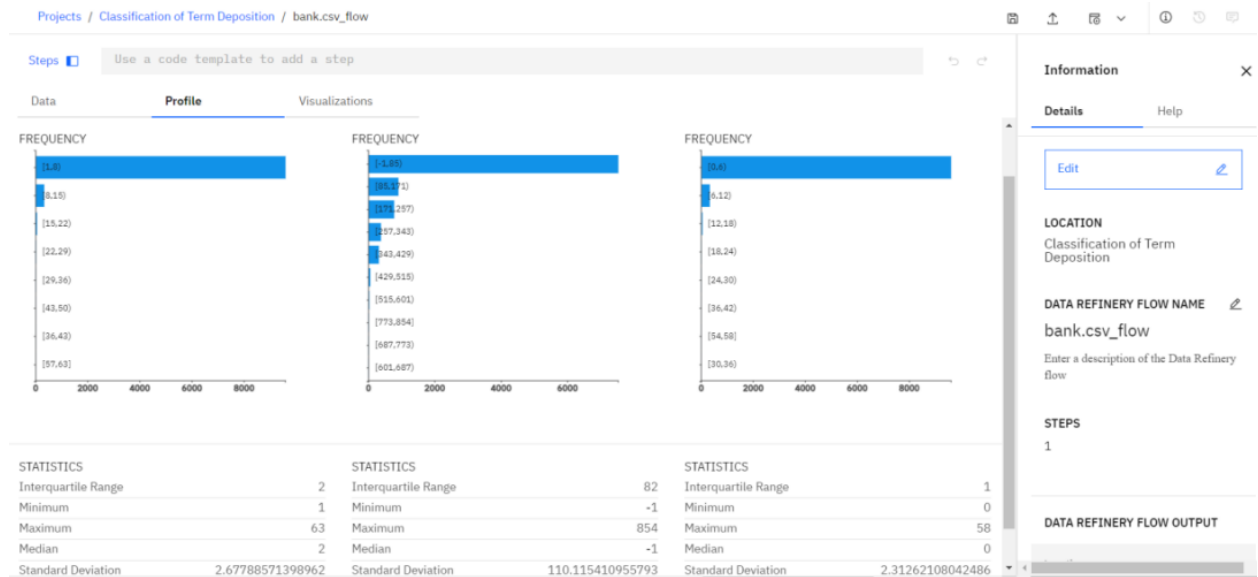
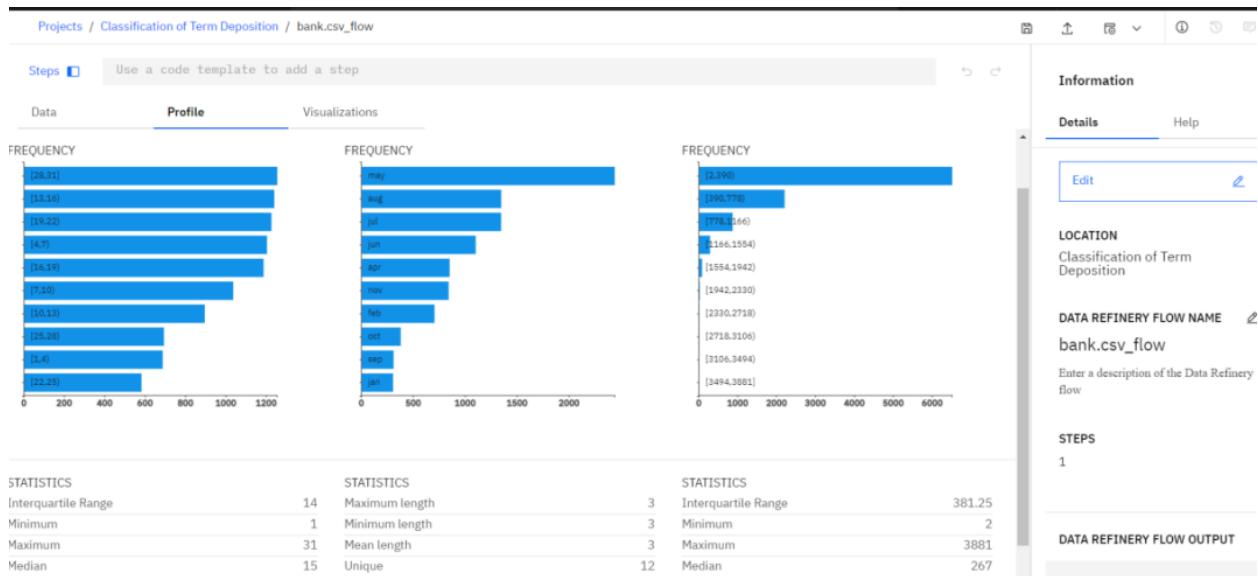
NAME : Harendhar K

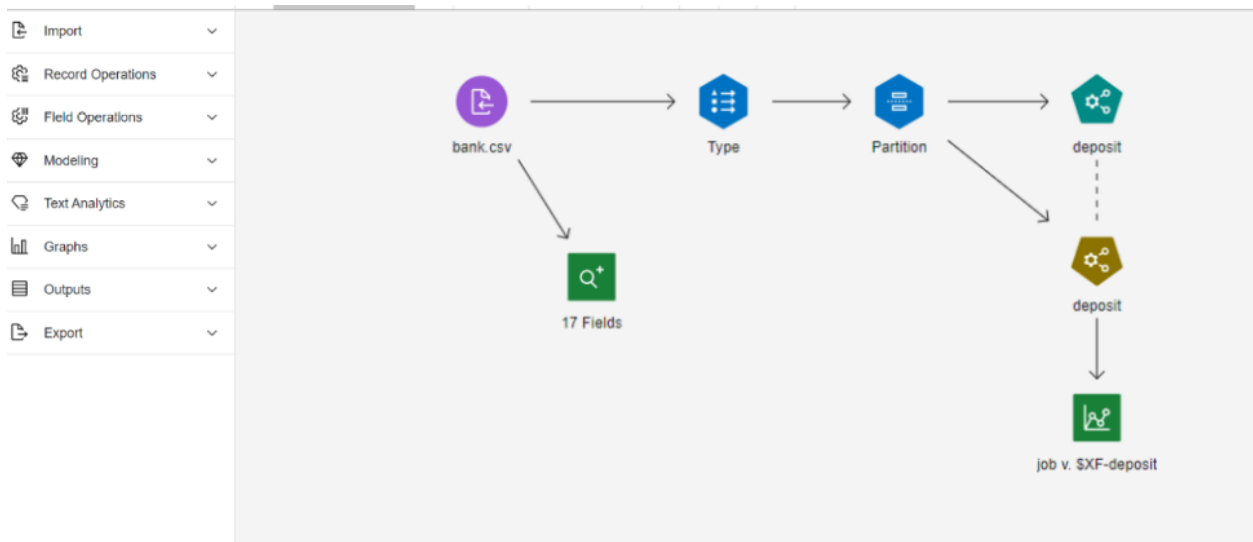
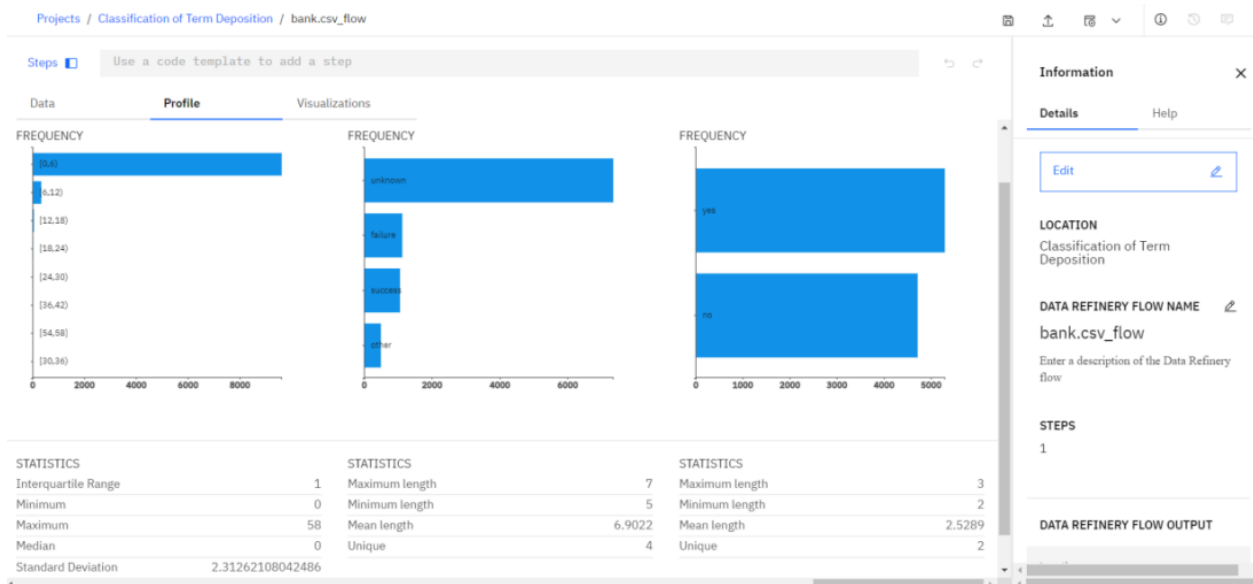
Reg no : 19BEE0140

Campus: Vellore









## 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

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	edu	Continuous	0	0	None	Never	Fixed	100.000	11162	0	0

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

Q 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 ▼	

Type

Q Find in column Field

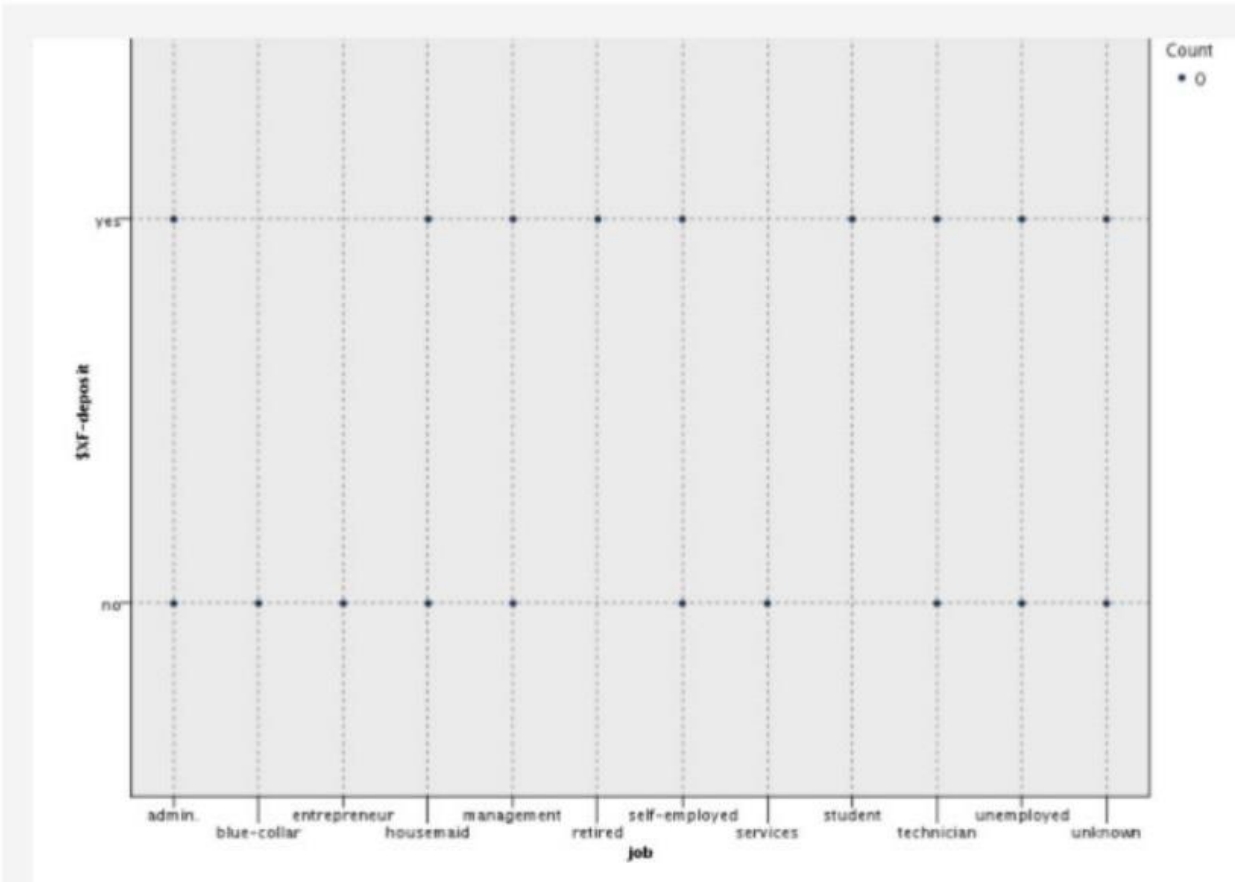
<input type="checkbox"/>	Field	Measure		Role		Value mode	Values	Check	
<input type="checkbox"/>	# day	Continuous	▼	None	▼	Instantiated ▼	1, 31	None ▼	
<input type="checkbox"/>	abc month	Nominal	▼	None	▼	Instantiated ▼	apr, aug, dec, feb, ...	None ▼	
<input type="checkbox"/>	# duration	Continuous	▼	None	▼	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 Output: job v. \$XF-deposit



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	ACTIONS
<input checked="" type="checkbox"/>	<a href="#">Decision Tree 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-AS 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="#">C4.1</a>	C5.0	< 1	2	57.444	57.444	0.587	0.587	0.388	0.578	