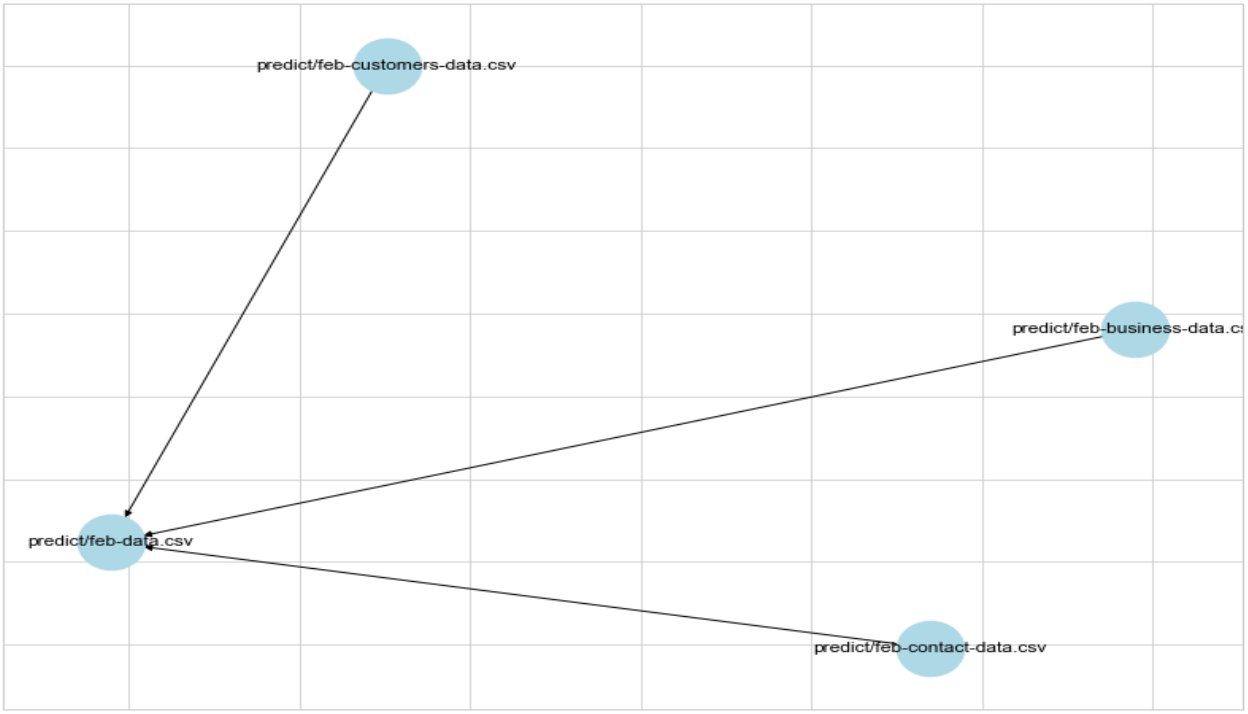
AI Observability report

Context

Project : O-Reilly
Application: Creation data feb
Environment: Production
Run on: 2021-04-21T14:56:14.461157
With version https://gitlab.example.com,2021-04-21T14:56:14.460024

Lineage



Data Sources

Data Source Name: predict/feb-customers-data.csv

Data Source ID:

Name	Format	Location
predict/feb-customers-data.csv	csv	file:/Users/kensu/Customers/Kensu/oreilly/data/predict/feb-customers-data.csv

Data Source Schema:

Field	Used or not
age	used
job	used
marital	used
education	used
default	used
housing	used
loan	used
id	used

Data Source Stats:

age							
count	mean	std	min	25%	50%	75%	max
8534.0	39.93	10.48	18.0	32.0	38.0	47.0	98.0
id							
count	mean	std	min	25%	50%	75%	max
8534.0	20661.56	11877.36	1.0	10395.75	20734.0	31062.5	41183.0

Data Source Name: predict/feb-contact-data.csv

Data Source ID:

Name	Format	Location
predict/feb-contact-data.csv	csv	file:/Users/kensu/Customers/Kensu/oreilly/data/predict/feb-contact-data.csv

Data Source Schema:

Field	Used or not
contact	used

month	used
day_of_week	used
campaign	used
pdays	used
previous	used
poutcome	used
id	used

Data Source Stats:

campaign							
count	mean	std	min	25%	50%	75%	max
8534.0	2.57	2.74	1.0	1.0	2.0	3.0	42.0
pdays							
count	mean	std	min	25%	50%	75%	max
8534.0	962.11	187.83	0.0	999.0	999.0	999.0	999.0
previous							
count	mean	std	min	25%	50%	75%	max
8534.0	0.17	0.48	0.0	0.0	0.0	0.0	5.0
id							
count	mean	std	min	25%	50%	75%	max
8534.0	20661.56	11877.36	1.0	10395.75	20734.0	31062.5	41183.0

Data Source Name: predict/feb-business-data.csv

Data Source ID:

Name	Format	Location
predict/feb-business-data.csv	csv	file:/Users/kensu/Customers/Kensu/oreilly/data/predict/feb-business-data.csv

Data Source Schema:

Field	Used or not
emp_var_rate	used
cons_price_idx	used
cons_conf_idx	used
euribor3m	used
nr_employed	used
id	unused

Data Source Stats:

emp_var_rate							
count	mean	std	min	25%	50%	75%	max
8534.0	0.06	1.57	-3.4	-1.8	1.1	1.4	1.4
cons_price_idx							
count	mean	std	min	25%	50%	75%	max
8534.0	93.57	0.58	92.2	93.08	93.75	93.99	94.77
cons_conf_idx							
count	mean	std	min	25%	50%	75%	max
8534.0	-40.55	4.62	-50.8	-42.7	-41.8	-36.4	-26.9
euribor3m							
count	mean	std	min	25%	50%	75%	max
8534.0	0.04	0.02	0.01	0.01	0.05	0.05	0.05
nr_employed							
count	mean	std	min	25%	50%	75%	max
8534.0	5166.46	72.2	4963.6	5099.1	5191.0	5228.1	5228.1
id							
count	mean	std	min	25%	50%	75%	max
8534.0	20661.56	11877.36	1.0	10395.75	20734.0	31062.5	41183.0

Data Source Name: predict/feb-data.csv

Data Source ID:

Name	Format	Location
predict/feb-data.csv	csv	file:/Users/kensu/Customers/Kensu/oreilly/data/predict/feb-data.csv

Data Source Schema:

Field	Used or not
age	unused
job	unused
marital	unused
education	unused
default	unused
housing	unused
loan	unused

id	unused
contact	unused
month	unused
day_of_week	unused
campaign	unused
pdays	unused
previous	unused
poutcome	unused
emp_var_rate	unused
cons_price_idx	unused
cons_conf_idx	unused
euribor3m	unused
nr_employed	unused

Data Source Stats:

age							
count	mean	std	min	25%	50%	75%	max
8534.0	39.93	10.48	18.0	32.0	38.0	47.0	98.0
id							
count	mean	std	min	25%	50%	75%	max
8534.0	20661.56	11877.36	1.0	10395.75	20734.0	31062.5	41183.0
campaign							
count	mean	std	min	25%	50%	75%	max
8534.0	2.57	2.74	1.0	1.0	2.0	3.0	42.0
pdays							
count	mean	std	min	25%	50%	75%	max
8534.0	962.11	187.83	0.0	999.0	999.0	999.0	999.0
previous							
count	mean	std	min	25%	50%	75%	max
8534.0	0.17	0.48	0.0	0.0	0.0	0.0	5.0
emp_var_rate							
count	mean	std	min	25%	50%	75%	max
8534.0	0.06	1.57	-3.4	-1.8	1.1	1.4	1.4
cons_price_idx							
count	mean	std	min	25%	50%	75%	max

8534.0	93.57	0.58	92.2	93.08	93.75	93.99	94.77
cons_conf_idx							
count	mean	std	min	25%	50%	75%	max
8534.0	-40.55	4.62	-50.8	-42.7	-41.8	-36.4	-26.9
euribor3m							
count	mean	std	min	25%	50%	75%	max
8534.0	0.04	0.02	0.01	0.01	0.05	0.05	0.05
nr_employed							
count	mean	std	min	25%	50%	75%	max
8534.0	5166.46	72.2	4963.6	5099.1	5191.0	5228.1	5228.1

Service Level Agreement:

Profit must be greater than $6000

Service Level Objectives:

SLO	
Quality of contact-data table	{'schema': ["schema:predict/feb-contact-data.csv must be ['contact', 'month', 'day_of_week', 'campaign', 'pdays', 'previous', 'poutcome', 'id']"]}
Quality of business-data table	{'stats': ['euribor3m.mean must be in range [2, 4]']}

Service Level Indicators, here are the associated alerts:

Message	Expected	Actual
euribor3m.mean is out of bounds	[2, 4]	0.036040691352238106