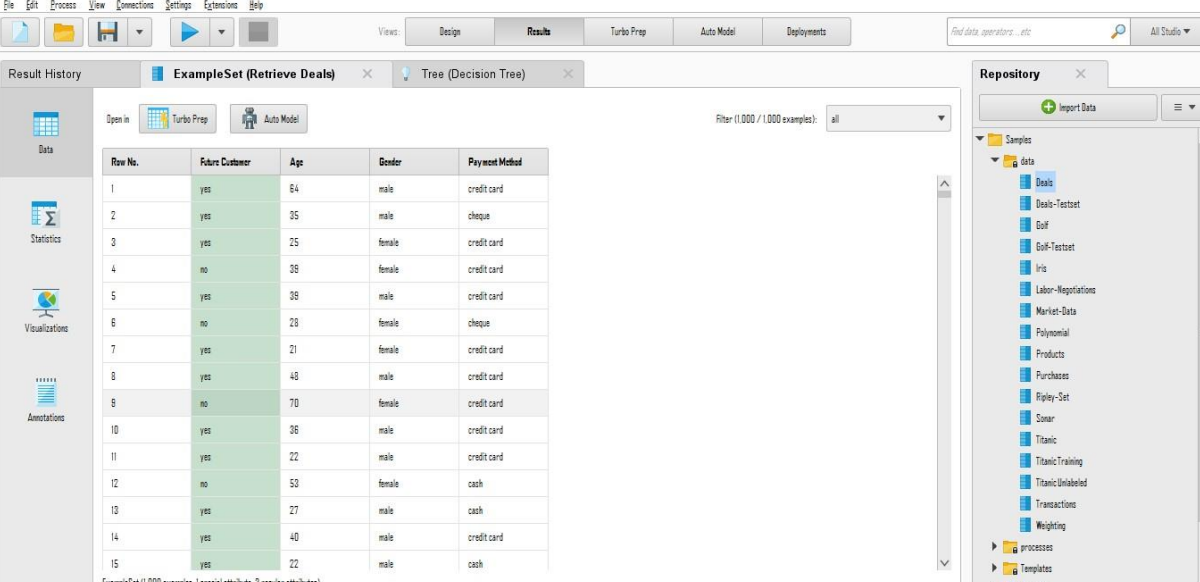


Nama : Wiki Nasmansyah

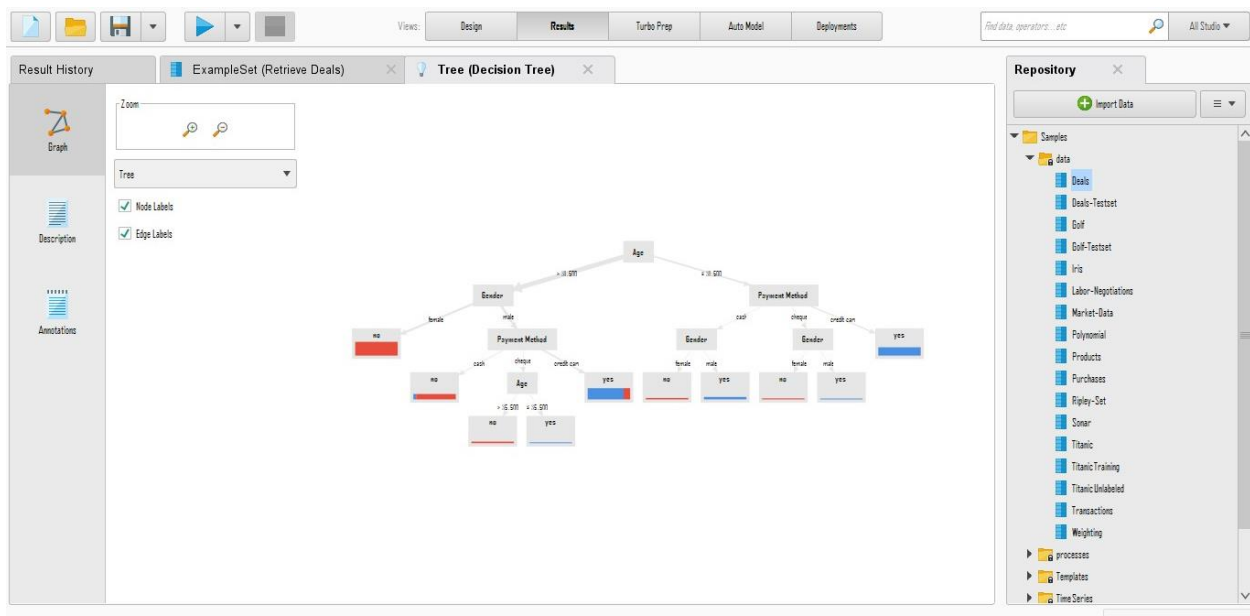
NIM : 19.01.013.050

Kelas : Sains Data C

a. Dataset Deals : Decision Tree



Row No.	Future Customer	Age	Gender	Payment Method
1	yes	64	male	credit card
2	yes	35	male	cheque
3	yes	25	female	credit card
4	no	38	female	credit card
5	yes	36	male	credit card
6	no	28	female	cheque
7	yes	21	female	credit card
8	yes	48	male	credit card
9	no	70	female	credit card
10	yes	36	male	credit card
11	yes	22	male	credit card
12	no	53	female	cash
13	yes	27	male	cash
14	yes	40	male	credit card
15	yes	22	male	cash



Hasil

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data, operators, etc. All Studio

Result History ExampleSet (Retrieve Golf) Tree (Decision Tree)

Open in Turbo Prep Auto Model

Filter (14 / 14 examples): all

Row No.	Play	Outlook	Temperature	Humidity	Wind
1	no	sunny	85	85	false
2	no	sunny	80	80	true
3	yes	overcast	83	78	false
4	yes	rain	70	66	false
5	yes	rain	68	80	false
6	no	rain	65	70	true
7	yes	overcast	64	65	true
8	no	sunny	72	85	false
9	yes	sunny	68	70	false
10	yes	rain	75	80	false
11	yes	sunny	75	70	true
12	yes	overcast	72	80	true
13	yes	overcast	81	75	false
14	no	rain	71	80	true

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File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data, operators, etc. All Studio

Result History ExampleSet (Retrieve Golf) Tree (Decision Tree)

Zoom

Tree

☒ Node Labels

☒ Edge Labels

```
graph TD
    Outlook[Outlook] -- overcast --> Yes1[yes]
    Outlook -- rain --> Wind[Wind]
    Outlook -- sunny --> Humidity[Humidity]
    Wind -- false --> Yes2[yes]
    Wind -- true --> No1[no]
    Humidity -- "> 77.500" --> No2[no]
    Humidity -- "< 77.500" --> Yes3[yes]
```

Repository

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Iris : Decision Tree

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data operators... etc All Studio

Result History ExampleSet (Retrieve Iris) Tree (Decision Tree)

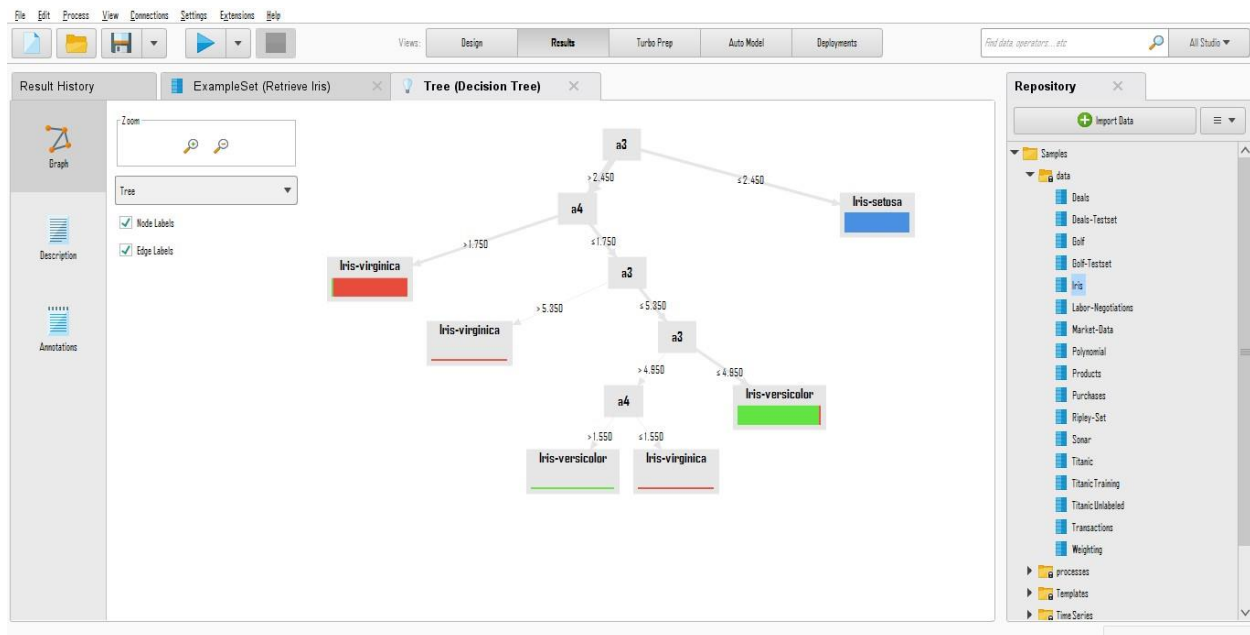
Open in Turbo Prep Auto Model Filter (150 / 150 examples): all

Row No.	id	label	x1	x2	x3	x4
1	id_1	Iris-setosa	5.100	3.500	1.400	0.200
2	id_2	Iris-setosa	4.900	3	1.400	0.200
3	id_3	Iris-setosa	4.700	3.200	1.300	0.200
4	id_4	Iris-setosa	4.600	3.100	1.500	0.200
5	id_5	Iris-setosa	5	3.600	1.400	0.200
6	id_6	Iris-setosa	5.400	3.600	1.700	0.400
7	id_7	Iris-setosa	4.600	3.400	1.400	0.300
8	id_8	Iris-setosa	5	3.400	1.500	0.200
9	id_9	Iris-setosa	4.400	2.900	1.400	0.200
10	id_10	Iris-setosa	4.800	3.100	1.500	0.100
11	id_11	Iris-setosa	5.400	3.700	1.500	0.200
12	id_12	Iris-setosa	4.900	3.400	1.600	0.200
13	id_13	Iris-setosa	4.900	3	1.400	0.100
14	id_14	Iris-setosa	4.300	3	1.100	0.100
15	id_15	Iris-setosa	5.000	4	1.200	0.200

ExampleSet (150 examples, 2 special attributes, 4 regular attributes)

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Labor Hasil:Decision tree

Views: Design Results Turbo Prep Auto Model Deployments

Find data, operators, etc. All Studio

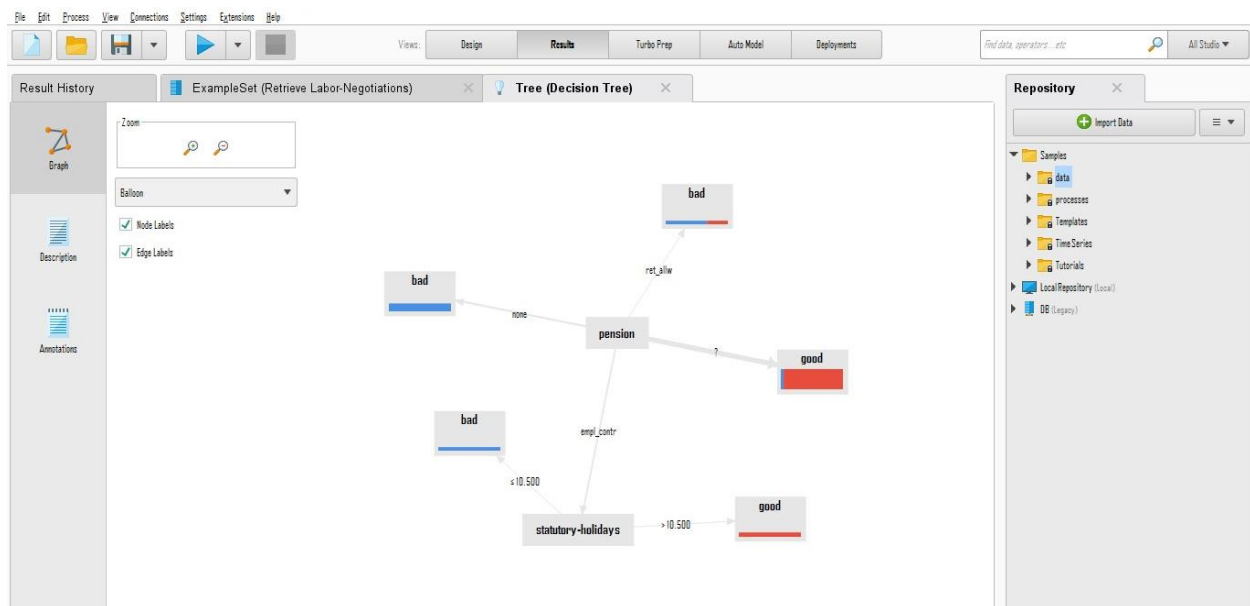
Result History ExampleSet (Retrieve Labor-Negotiations) Tree (Decision Tree)

Open in Turbo Prep Auto Model Filter (40 / 40 examples): all

Row No.	class	duration	wage-inc-1st	wage-inc-2nd	wage-inc-3rd	col-adj	working-hours	pension	statutory
1	good	1	5	?	?	?	40	?	?
2	good	2	4.500	5.800	?	?	35	ret_allow	?
3	good	?	?	?	?	?	38	empl_contr	?
4	good	3	3.700	4	5	tc	?	?	?
5	good	3	4.500	4.500	5	?	40	?	?
6	good	2	2	2.500	?	?	35	?	?
7	good	3	4	5	5	tc	?	empl_contr	?
8	good	3	6.800	4.800	2.300	?	40	?	?
9	good	2	3	?	?	?	38	?	12
10	good	1	5.700	?	?	none	40	empl_contr	?
11	good	3	3.500	4	4.600	none	38	?	?
12	good	2	6.400	6.400	?	?	38	?	?
13	bad	2	3.500	4	?	none	40	?	?
14	good	3	3.500	4	5.100	tcf	37	?	?

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Polynomial : Linear Regression

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data, operators, etc. All Studio

Result History

ExampleSet (Retrieve Polynomial) LinearRegression (Linear Regression)

Open in Turbo Prep Auto Model

Filter (200 / 200 examples): all

Row No.	label	a1	a2	a3	a4	a5
1	88.016	0.637	8.442	2.116	2.772	8.448
2	138.755	4.585	4.388	4.826	2.682	8.618
3	88.284	4.282	0.861	9.158	6.807	4.085
4	82.148	8.580	3.858	1.888	1.888	2.983
5	33.760	2.272	1.834	6.301	1.838	2.070
6	7.388	3.958	0.344	4.307	7.563	8.581
7	181.453	2.220	7.843	6.463	8.732	8.282
8	15.348	6.105	1.075	1.163	8.241	7.238
9	87.405	2.891	3.572	7.808	6.843	3.054
10	111.487	4.283	7.988	0.921	6.688	3.876
11	203.574	1.884	8.048	8.880	2.573	1.538
12	140.767	6.226	8.381	0.351	3.688	6.234
13	258.381	8.812	3.942	5.305	6.661	7.118
14	20.330	1.883	1.468	7.847	2.043	0.000
15	105.813	0.687	8.844	0.001	4.557	3.258

ExampleSet (200 examples, 1 special attribute, 5 regular attributes)

Repository

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- Time Series

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data, operators, etc. All Studio

Result History

ExampleSet (Retrieve Polynomial) LinearRegression (Linear Regression)

Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Coll.
a1	31.736	2.114	0.468	1.000	15.008	0	****
a2	42.848	1.928	0.688	0.688	22.278	0	****
a3	23.773	2.000	0.368	1.000	11.888	0	****
a4	3.708	2.060	0.058	1.000	1.788	0.074	*
a5	-4.184	1.823	-0.088	0.688	-2.178	0.031	**
(Intercept)	-304.228	23.803	?	?	-12.888	0	****

Repository

Import Data

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- processes
- Templates
- Time Series

Purchase: K-Medoids

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data, operators, etc. All Studio

Result History

ExampleSet (Clustering) Cluster Model (Clustering)

Open in: Turbo Prep Auto Model

Filter (3 / 3 examples): all

Row No.	id	cluster	CAR	APPARTEMENT	VILLA	POOR	AVERAGE	RICH
1	1	cluster_0	false	true	false	true	false	false
2	2	cluster_0	true	true	false	false	true	false
3	3	cluster_1	true	false	true	false	false	true

ExampleSet (3 examples, 2 special attributes, 6 regular attributes)

Repository

- Import Data
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- Golf-Testset
- Iris
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- processes
- Templates
- Time Series
- Tutorials
- Local Repository (local)
- DB (legacy)

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data, operators, etc. All Studio

Result History

ExampleSet (Clustering) Cluster Model (Clustering)

Cluster Model

Cluster 0: 2 items
Cluster 1: 1 items
Total number of items: 3

Repository

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 - processes

VirtualBox Host-Only Network
No internet access

Ripley-set: Linear Regression

Views: Design Results Turbo Prep Auto Model Deployments

Find data, operators, etc. All Studio

Result History: ExampleSet (Retrieve Ripley-Set) LinearRegression (Linear Regression)

Open in: Turbo Prep Auto Model

Filter (250 / 250 examples): all

Row No.	label	att1	att2
1	0	0.051	0.161
2	0	-0.748	0.088
3	0	-0.773	0.263
4	0	0.218	0.127
5	0	0.373	0.497
6	0	-0.626	0.632
7	0	-0.433	0.145
8	0	-0.842	-0.191
9	0	0.475	0.225
10	0	0.321	0.327
11	0	0.321	0.334
12	0	-0.881	0.412
13	0	0.179	0.447
14	0	0.316	0.388
15	0	0.553	0.473

ExampleSet (250 examples, 1 special attribute, 2 regular attributes)

Repository: Import Data

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File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data, operators, etc. All Studio

Result History: ExampleSet (Retrieve Ripley-Set) LinearRegression (Linear Regression)

Open in: Turbo Prep Auto Model

Filter (250 / 250 examples): all

Row No.	label	att1	att2
1	0	0.051	0.161
2	0	-0.748	0.088
3	0	-0.773	0.263
4	0	0.218	0.127
5	0	0.373	0.497
6	0	-0.626	0.632
7	0	-0.433	0.145
8	0	-0.842	-0.191
9	0	0.475	0.225
10	0	0.321	0.327
11	0	0.321	0.334
12	0	-0.881	0.412
13	0	0.179	0.447
14	0	0.316	0.388
15	0	0.553	0.473

ExampleSet (250 examples, 1 special attribute, 2 regular attributes)

Repository: Import Data

- Samples
 - data
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 - Golf-Testset
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Sonar: Linear Regression

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data operators...etc

Result History

ExampleSet (Retrieve Sonar) LinearRegression (Linear Regression)

Open in Turbo Prep Auto Model

Filter (208 / 208 examples): all

Row No.	class	attribute_1	attribute_2	attribute_3	attribute_4	attribute_5	attribute_6	attribute_7	attribute_8
195	Mine	0.038	0.011	0.027	0.026	0.041	0.048	0.105	0.165
196	Mine	0.013	0.014	0.031	0.037	0.077	0.079	0.066	0.111
197	Mine	0.005	0.002	0.027	0.045	0.066	0.093	0.098	0.122
198	Mine	0.007	0.042	0.050	0.025	0.060	0.025	0.096	0.069
199	Mine	0.024	0.032	0.042	0.040	0.078	0.077	0.088	0.114
200	Mine	0.012	0.074	0.037	0.022	0.009	0.054	0.111	0.107
201	Mine	0.013	0.039	0.033	0.008	0.072	0.134	0.163	0.160
202	Mine	0.034	0.026	0.040	0.057	0.053	0.106	0.171	0.168
203	Mine	0.027	0.038	0.048	0.085	0.113	0.110	0.135	0.234
204	Mine	0.019	0.035	0.017	0.016	0.039	0.163	0.203	0.169
205	Mine	0.002	0.010	0.030	0.056	0.076	0.096	0.099	0.102
206	Mine	0.052	0.044	0.018	0.029	0.035	0.117	0.126	0.118
207	Mine	0.030	0.035	0.048	0.061	0.017	0.135	0.146	0.112
208	Mine	0.026	0.036	0.014	0.027	0.021	0.034	0.066	0.140

ExampleSet (208 examples, 1 special attribute, 60 regular attributes)

Repository

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File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data operators...etc

Result History

ExampleSet (Retrieve Sonar) LinearRegression (Linear Regression)

Attribute	Coefficient	Std. Err.	Std. Coefficient	Tolerance	t-Stat	p-Value	Coll.
attribute_1	2.053	1.970	0.094	0.904	1.042	0.298	
attribute_2	2.007	1.800	0.132	0.930	1.115	0.267	
attribute_3	-5.631	1.678	-0.433	0.886	-3.353	0.001	***
attribute_4	3.253	1.035	0.303	0.953	3.142	0.002	***
attribute_8	-1.181	0.631	-0.203	0.910	-1.888	0.061	*
attribute_9	0.843	0.753	0.223	0.850	1.251	0.213	
attribute_10	-0.381	0.688	-0.102	0.802	-0.552	0.582	
attribute_11	0.247	0.782	0.066	0.701	0.316	0.752	
attribute_12	1.027	0.633	0.238	0.777	1.621	0.107	
attribute_13	0.422	0.632	0.118	0.951	0.668	0.505	
attribute_14	-0.361	0.578	-0.118	0.955	-0.627	0.532	
attribute_15	0.257	0.581	0.106	0.886	0.443	0.658	
attribute_16	-0.256	0.585	-0.118	1.000	-0.453	0.652	
attribute_17	-0.686	0.560	-0.367	1.000	-1.181	0.240	
attribute_18	1.007	0.553	0.527	1.000	1.821	0.071	*

Repository

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Weighting: Linear regression

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data, operators, etc. All Studio

Result History

ExampleSet (Retrieve Weighting) LinearRegression (Linear Regression)

Open in Turbo Prep Auto Model

Filter (500 / 500 examples): all

Row No.	weighting.dat (7)	weighting.dat (1)	weighting.dat (2)	weighting.dat (3)	weighting.dat (4)	weighting.dat (5)	weighting.dat (6)
1	negative	2.522	6.912	5.474	6.708	3.056	3.380
2	positive	7.659	7.723	6.137	5.415	4.916	5.141
3	negative	0.117	5.276	0.801	6.577	4.378	2.075
4	negative	1.910	7.896	3.786	0.888	0.910	6.283
5	negative	4.923	2.889	6.608	2.146	2.631	7.864
6	positive	9.065	1.374	4.541	0.368	2.921	0.773
7	negative	0.958	5.497	0.261	1.712	7.141	7.054
8	negative	9.454	6.764	6.671	5.705	4.658	8.023
9	negative	0.212	5.810	6.868	7.555	3.913	8.200
10	positive	9.702	4.536	5.718	3.834	7.026	9.335
11	positive	9.375	3.521	6.745	7.373	7.541	4.485
12	positive	9.919	7.514	5.419	4.280	4.281	2.280
13	positive	6.839	2.022	2.770	7.401	3.619	4.269
14	positive	9.827	5.722	3.849	1.616	0.200	0.477
15	negative	3.053	8.827	9.004	1.995	9.743	0.142

ExampleSet (500 examples, 1 special attribute, 6 regular attributes)

Repository

Import Data

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File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Deployments

Find data, operators, etc. All Studio

Result History

ExampleSet (Retrieve Weighting) LinearRegression (Linear Regression)

Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Code
weighting.dat (1)	0.122	0.004	0.708	1.000	27.432	0	****
weighting.dat (2)	-0.052	0.005	-0.299	0.999	-11.526	0	****
weighting.dat (3)	-0.047	0.004	-0.271	1.000	-10.468	0	****
(Intercept)	0.381	0.040	?	?	9.580	0	****

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