

Wildan Abdul Rachman Saleh

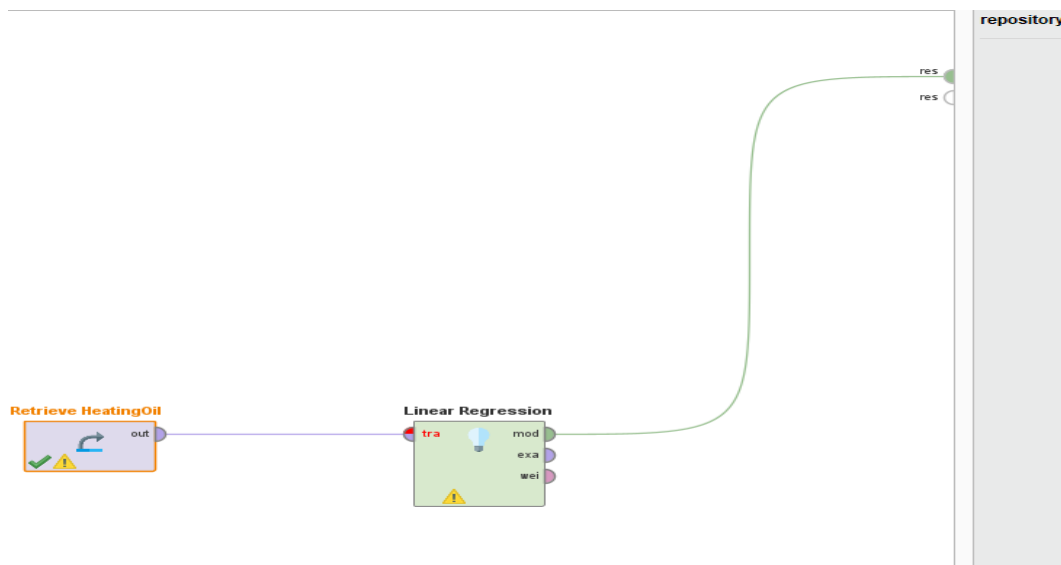
SIB 3A/ 26

2141764038

REGRESI LINEAR

PRAKTIKUM

1. Buka rapidminer studio. Gunakan operator seperti pada gambar berikut



2. Untuk operator data, silakan mengambil data yang sudah ada dengan nama file Polynomial.

Hasil

Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Code
a1	31.736	2.114	0.463	1.000	15.009	0	****
a2	42.948	1.928	0.689	0.998	22.276	0	****
a3	23.773	2.000	0.369	1.000	11.888	0	****
a4	3.706	2.060	0.056	1.000	1.799	0.074	*
a5	-4.184	1.923	-0.068	0.999	-2.176	0.031	**
(Intercept)	-304.228	23.603	?	?	-12.889	0	****

Data awal

Open in



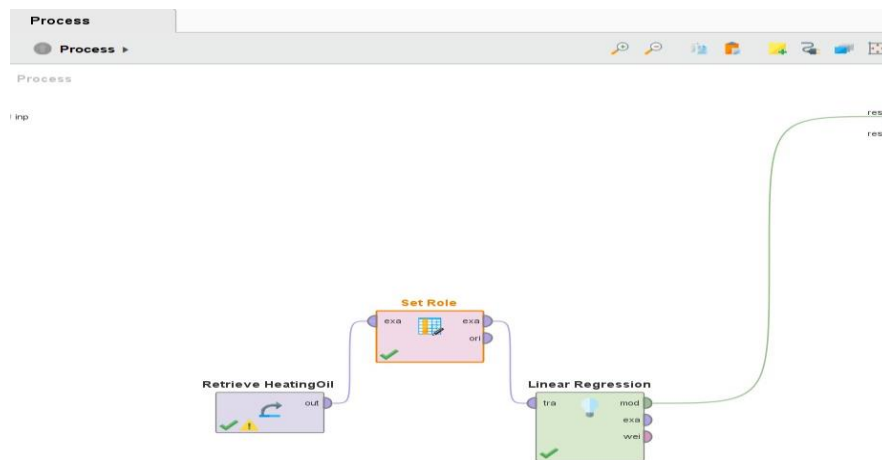
Turbo Prep



Auto Model

Row No.	Insulation	Temperature	Heating_Oil	Num_Occup...	Avg_Age	Home_Size
1	6	74	132	4	23.800	4
2	10	43	263	4	56.700	4
3	3	81	145	2	28	6
4	9	50	196	4	45.100	3
5	2	80	131	5	20.800	2
6	5	76	129	3	21.500	3
7	5	72	131	4	23.500	3
8	6	88	161	2	38.200	6
9	5	77	184	3	42.500	3
10	10	42	225	3	51.100	1
11	6	90	178	2	42.100	2
12	3	83	121	1	19.800	2
13	10	43	186	5	45.100	6
14	8	59	206	2	50.100	8
15	4	86	179	5	41.400	6
16	4	80	156	3	32.800	3
17	4	78	135	4	22.800	5
18	4	76	186	1	50.500	4
19	10	47	282	2	62	6
20	10	55	193	4	47.100	8
21	10	55	295	2	66.900	5
22	5	75	136	1	23	7
23	5	75	142	2	26.700	2

Design Regresi Rpid miner dengan menggunakan data Heating Oil



Hasil Rapid Miner

Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Code
Insulation	3.323	0.420	0.164	0.431	7.906	0.000	****
Temperature	-0.869	0.071	-0.262	0.405	-12.222	0	****
Avg_Age	1.968	0.065	0.527	0.491	30.217	0	****
Home_Size	3.173	0.311	0.131	0.914	10.210	0	****
(Intercept)	134.511	7.589	?	?	17.725	0	****

3. Silakan jalankan design tersebut dan amati hasilnya.

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LinearRegression (Linear Regression)

LinearRegression

3.323 * Insulation
- 0.869 * Temperature
+ 1.968 * Avg_Age
+ 3.173 * Home_Size
+ 134.511
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4. Tuliskan model yang dibentuk dari hasil linier regresi tersebut?

Atribute	RapidMiner	Tugas
Insulation	3,323	6
Temperature	-869	67
Avg_Age	1,9680	35,4
Home_Size	3,1730	5

Hasil	
Insulation	19,938
Temperature	-58223
Avg_Age	69,6672
Home_Size	15,865