

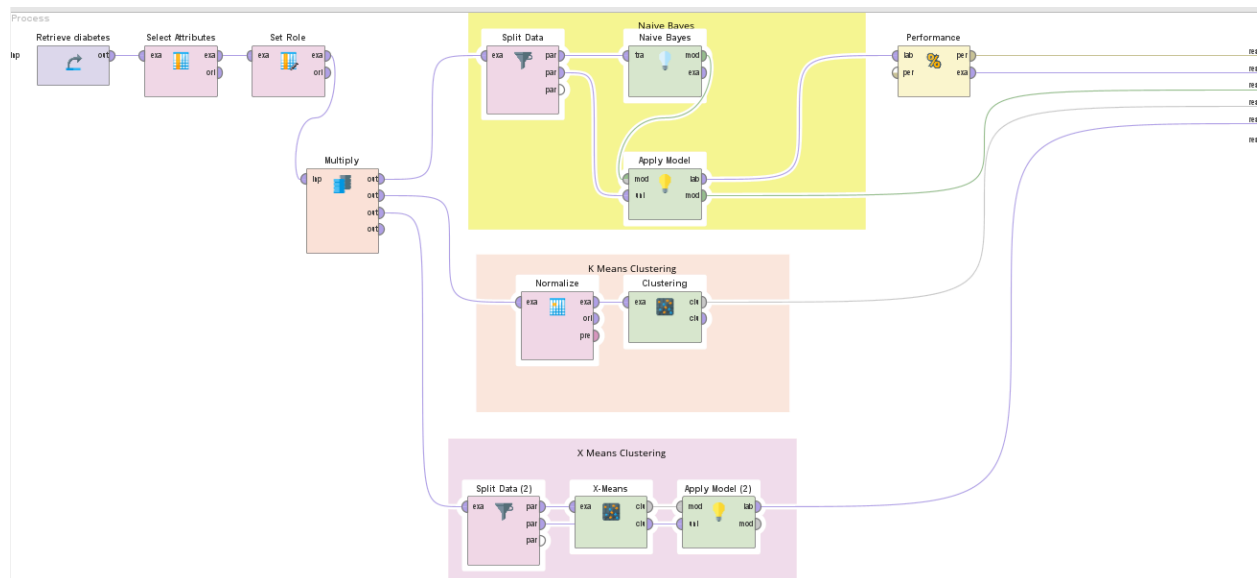
Analysis Report

Title : Diabetes Classification

Method : Naive Bayes Classifier

Youtube Link : <https://youtu.be/0PtfdMMT6l8>

Final Model :



Outputs:

PerformanceVector

PerformanceVector:

accuracy: 73.48%

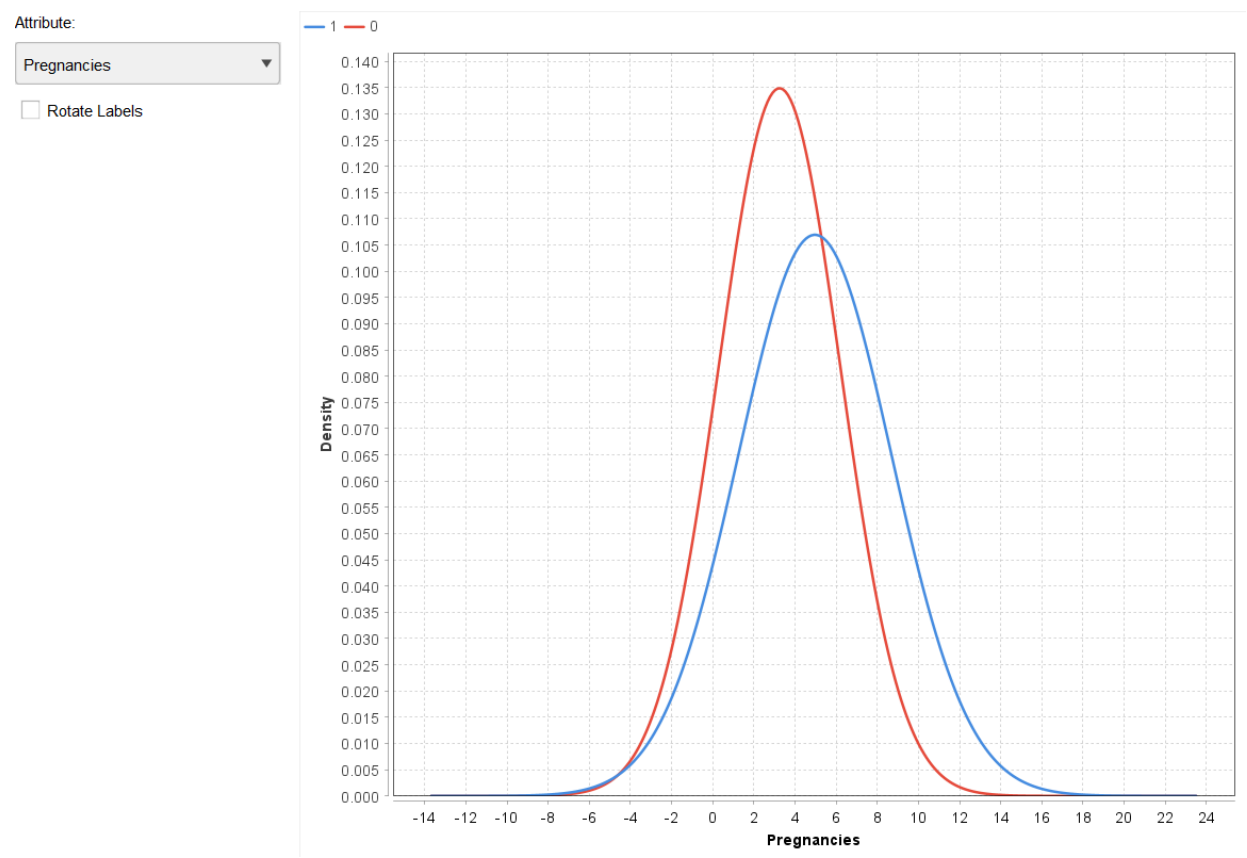
ConfusionMatrix:

True:	1	0
1:	49	30
0:	31	120

squared_correlation: 0.171

accuracy: 73.48%

	true 1	true 0	class precision
pred. 1	49	30	62.03%
pred. 0	31	120	79.47%
class recall	61.25%	80.00%	



Open in [Turbo Prep](#) [Auto Model](#) [Interactive Analysis](#) Filter (230 / 230 examples): [all](#)

Row No.	Outcome	prediction(O...	confidence(1)	confidence(0)	Pregnancies	Glucose	BloodPress...	SkinThickne...
1	0	1	0.731	0.269	10	115	0	0
2	1	0	0.001	0.999	8	125	96	0
3	1	1	0.935	0.065	10	168	74	0
4	0	1	0.990	0.010	10	139	80	0
5	1	1	1.000	0.000	1	189	60	23
6	0	0	0.367	0.633	8	99	84	0
7	1	1	0.700	0.300	7	147	76	0
8	0	0	0.390	0.610	5	109	75	26
9	0	0	0.006	0.994	3	88	58	11
10	0	1	0.513	0.487	10	122	78	31
11	0	1	0.753	0.247	11	138	76	0
12	1	1	0.517	0.483	9	102	76	37
13	1	1	0.978	0.022	4	111	72	47
14	0	1	0.607	0.393	3	180	64	25
15	0	0	0.000	1.000	7	105	0	0
16	0	1	0.706	0.294	0	100	88	60
17	0	1	0.997	0.003	0	146	82	0

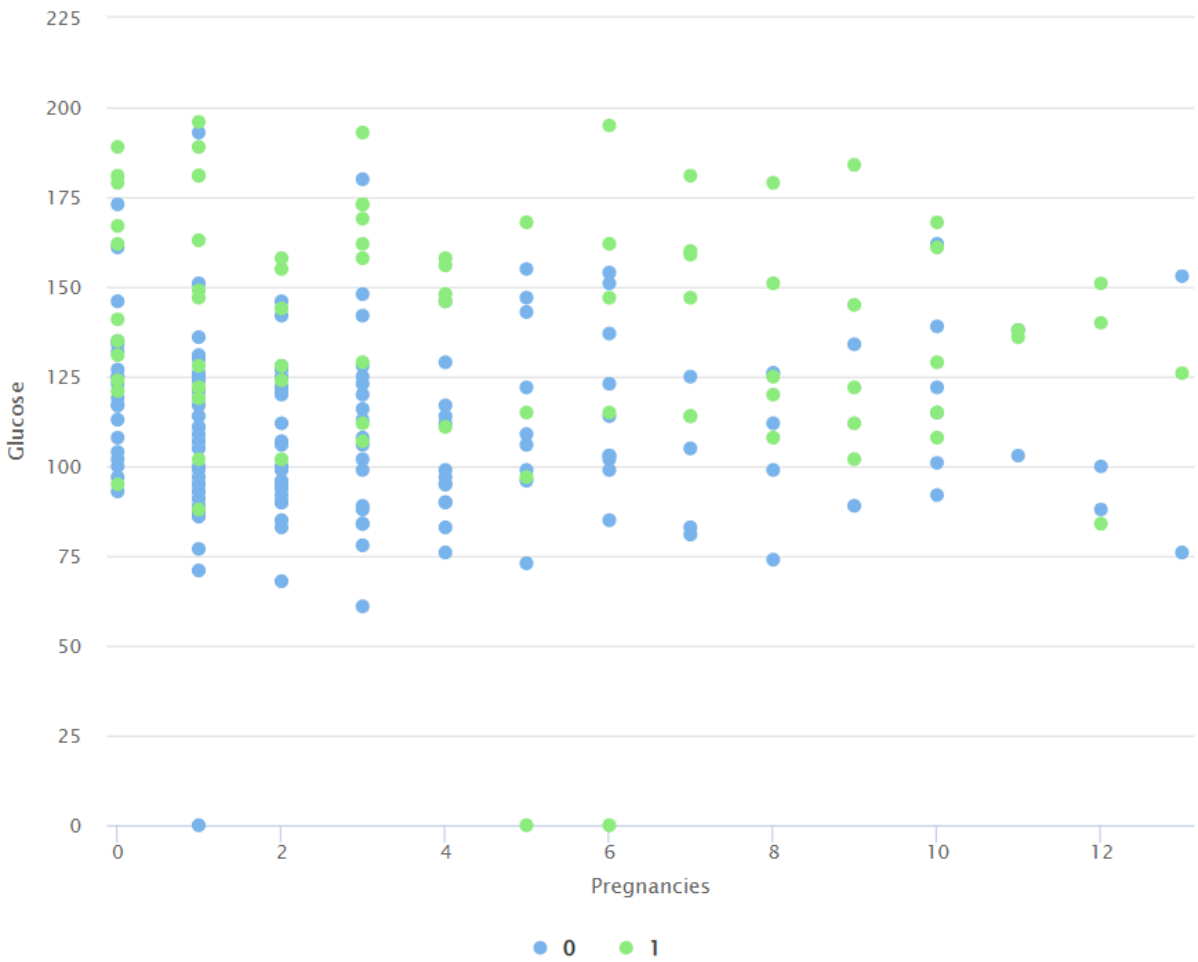
SimpleDistribution

Distribution model for label attribute Outcome

Class 1 (0.349)
8 distributions

Class 0 (0.651)
8 distributions

Apply Model (2)



	Name	Type	Missing	Statistics	Filter (10 / 10 attributes):	Search for Attributes
Data	Label Outcome	Polynominal	0	Least 1 (80)	Most 0 (150)	Values 0 (150), 1 (80)
Statistics	Cluster cluster	Nominal	0	Least cluster_1 (7)	Most cluster_0 (150)	Values cluster_0 (150), cluster_1 (7)
Visualizations	Pregnancies	Integer	0	Min 0	Max 13	Average 3.839
Annotations	Glucose	Integer	0	Min 0	Max 196	Average 120.417
	BloodPressure	Integer	0	Min 0	Max 104	Average 68.604
	SkinThickness	Integer	0	Min 0	Max 60	Average 21.370
	Insulin	Integer	0	Min 0	Max 846	Average 80.691
	BMI	Real	0	Min 0	Max 57.300	Average 32.746
	DiabetesPediatric	Real	0	Min 0.085	Max 2.137	Average 0.484

Showing attributes 1 - 10

Examples: 230 Special Attributes: 2 Regular Attributes: 8

Cluster Model

Cluster 0: 299 items

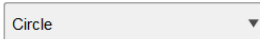
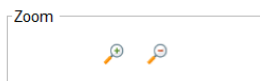
Cluster 1: 169 items

Cluster 2: 60 items

Cluster 3: 204 items

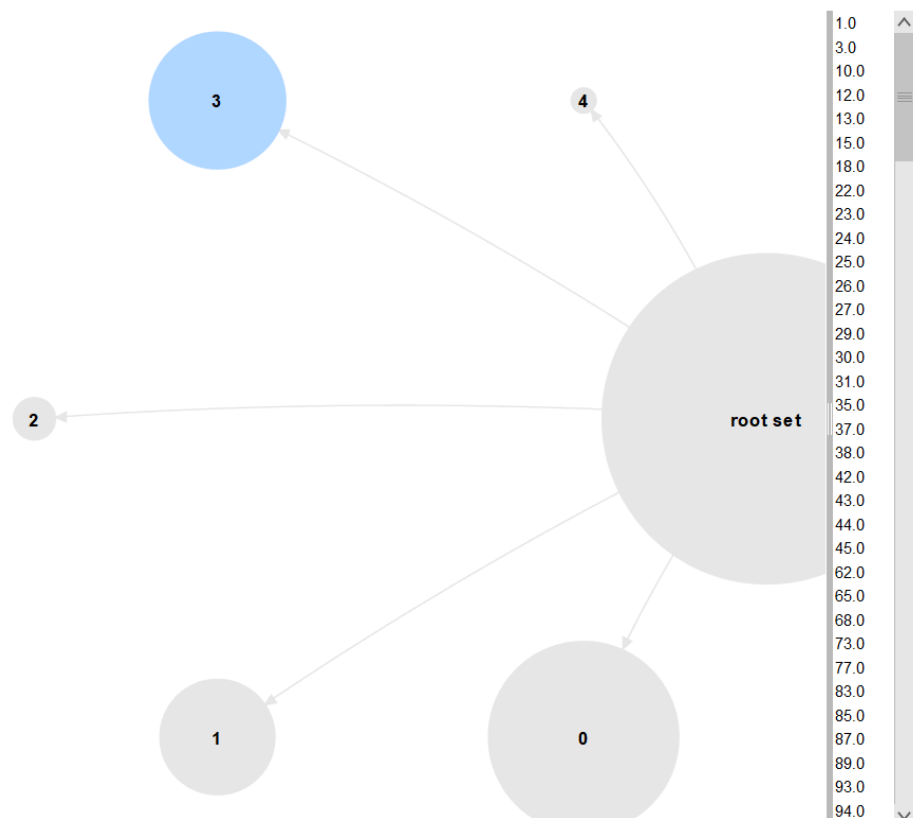
Cluster 4: 36 items

Total number of items: 768



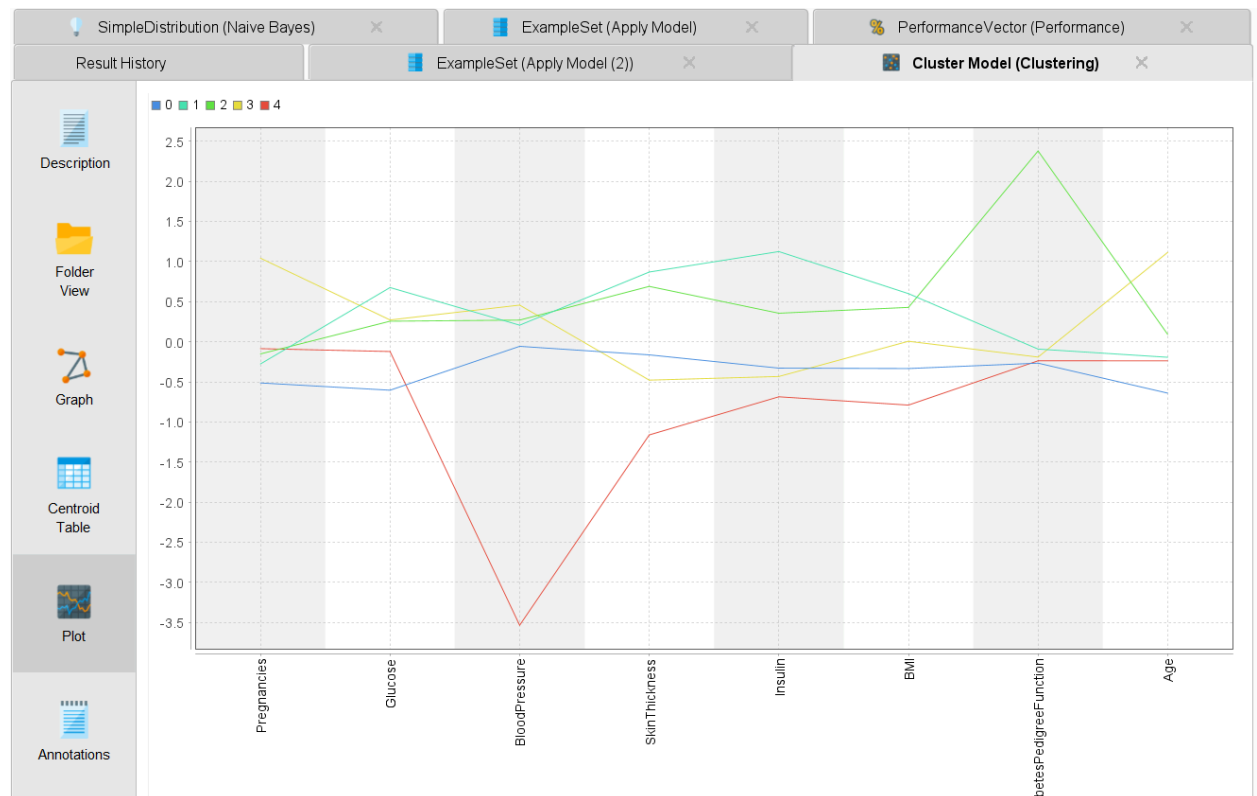
☒ Node Labels

☒ Edge Labels



Description	
Folder View	
Graph	
Centroid Table	
Plot	
Annotations	

Attribute	cluster_0	cluster_1	cluster_2	cluster_3	cluster_4
Pregnancies	-0.514	-0.277	-0.152	1.043	-0.086
Glucose	-0.604	0.676	0.256	0.272	-0.122
BloodPressure	-0.057	0.207	0.270	0.457	-3.536
SkinThickness	-0.164	0.870	0.690	-0.479	-1.162
Insulin	-0.329	1.125	0.356	-0.433	-0.686
BMI	-0.334	0.600	0.429	0.006	-0.790
DiabetesPedigreeFunction	-0.267	-0.091	2.380	-0.191	-0.238
Age	-0.641	-0.194	0.091	1.115	-0.238



Inference :

By this model, we can infer that the accuracy is 73.48% which lets us to know how good this model can perform and the graphs can be used to infer many data from it.