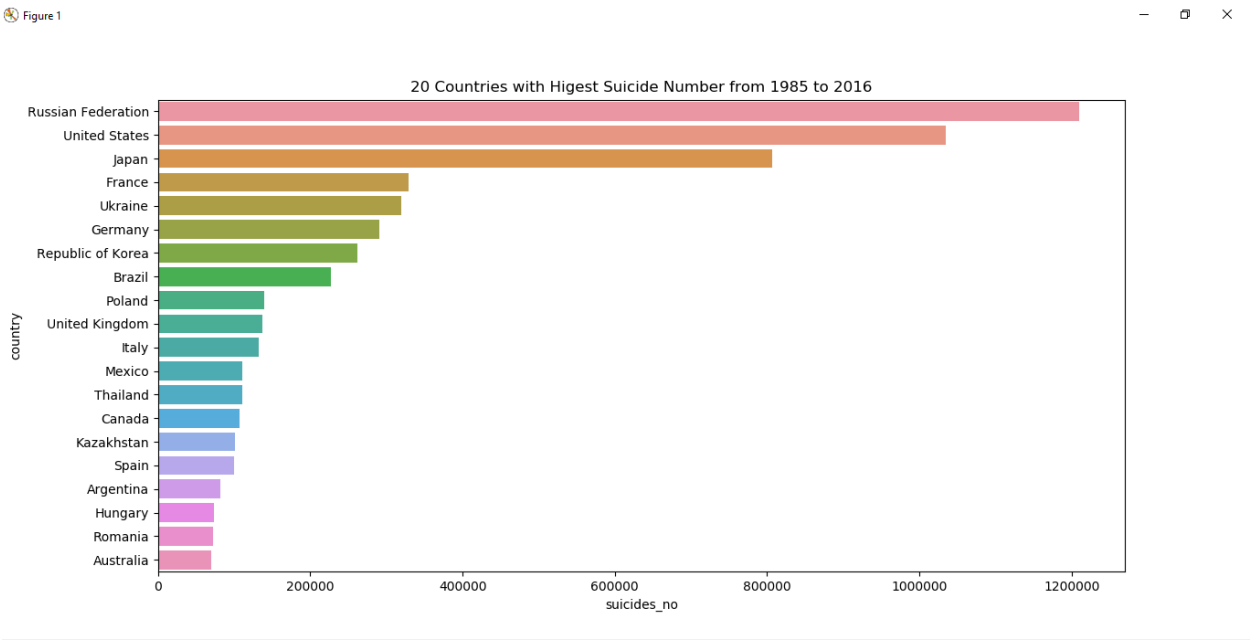
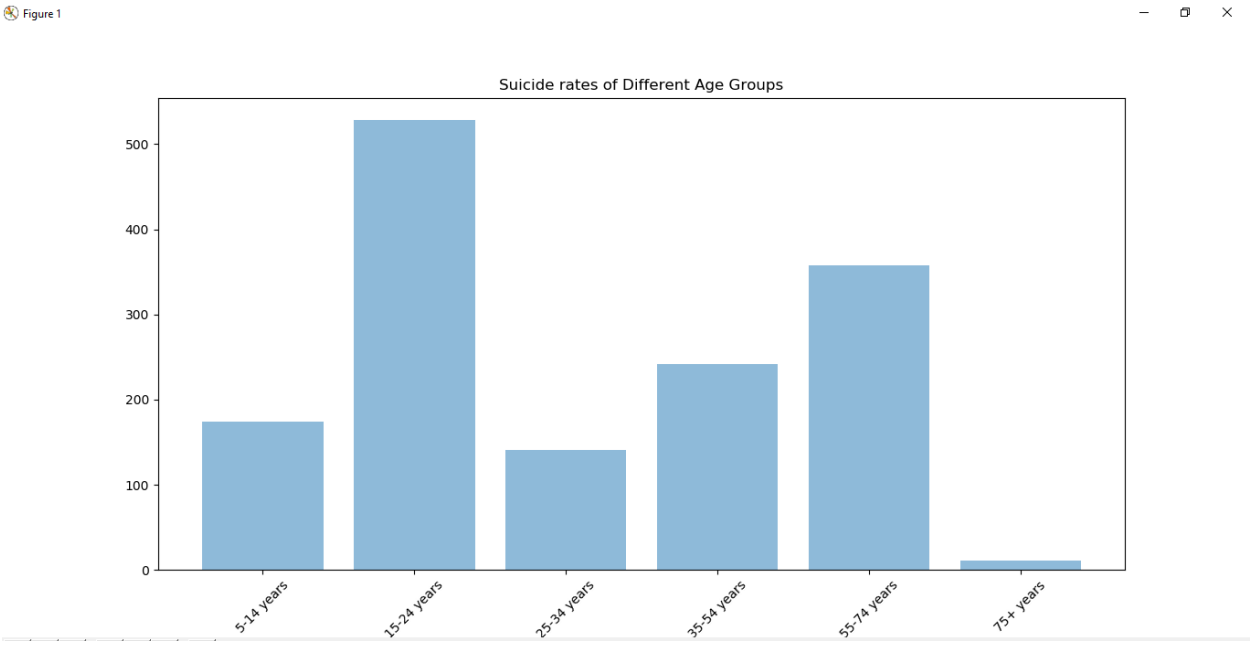
Attributes	Type	Distinct	Unique	Missing	Minimum	Maximum
Country	Nominal	101	0	0	-	-
Year	Numeric	32	0	0	1985	2016
Sex	Nominal	2	0	0	-	-
Age	Numeric	6	0	0	15	75
No. of Suicides	Numeric	2084	1001	0	0	22338
Population	Numeric	25564	24110	0	278	43805214
Suicides/100K	Numeric	5298	2045	0	0	224.97
Country-Year	Nominal	2321	0	0	-	-
HDI for Year	Numeric	305	0	19456	0.483	0.944
GDP/year	Nominal	2321	0	0	-	-
GDP/Capita	Nominal	2233	0	0	251	126352
Generation	Nominal	6	0	0	-	-

Exploratory Sheet

Python IDLE Output

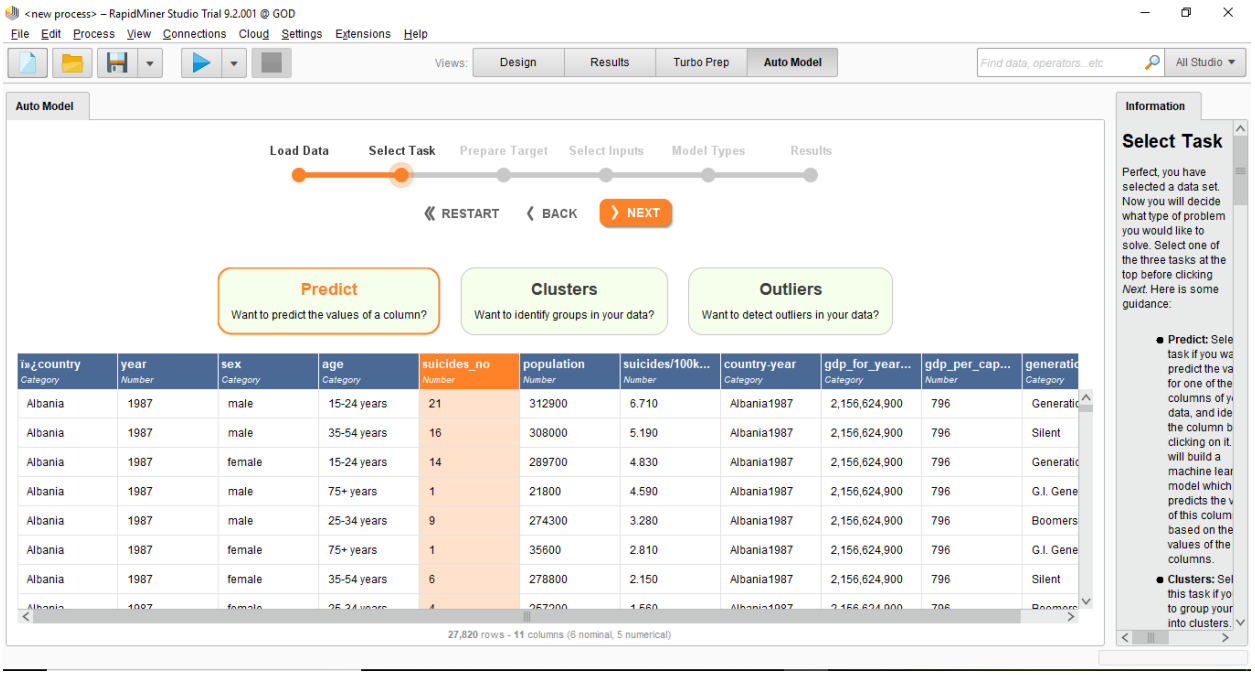


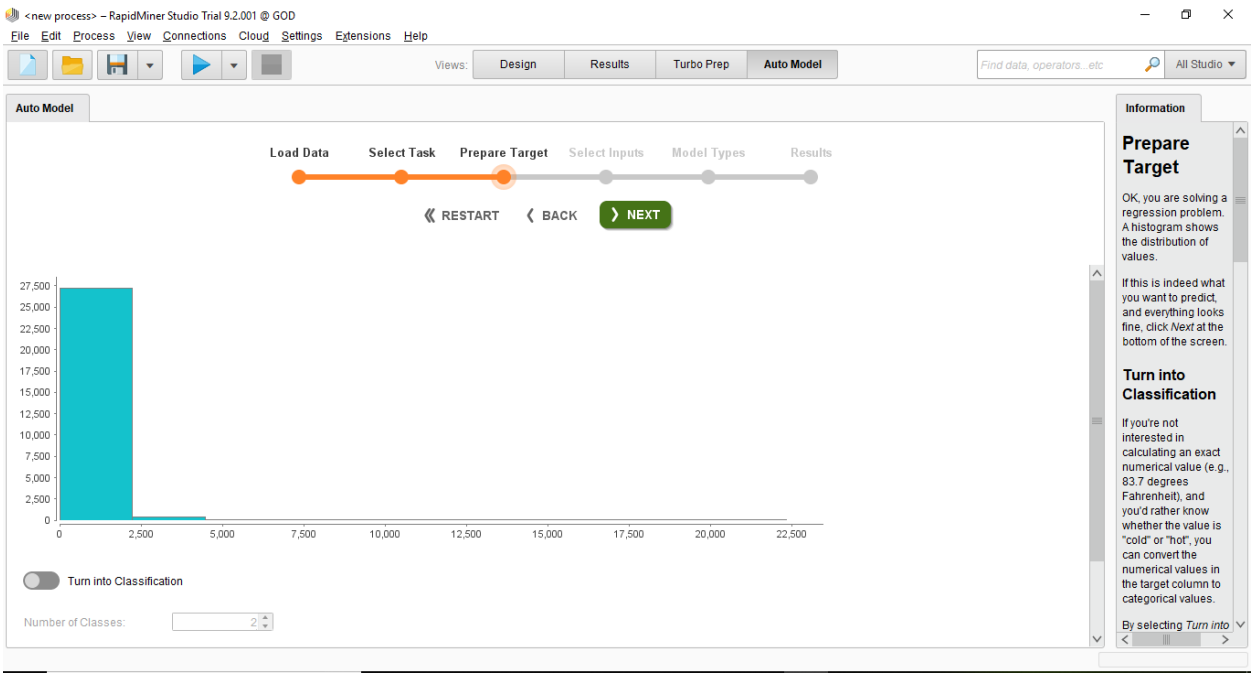
Python Graphs – 1

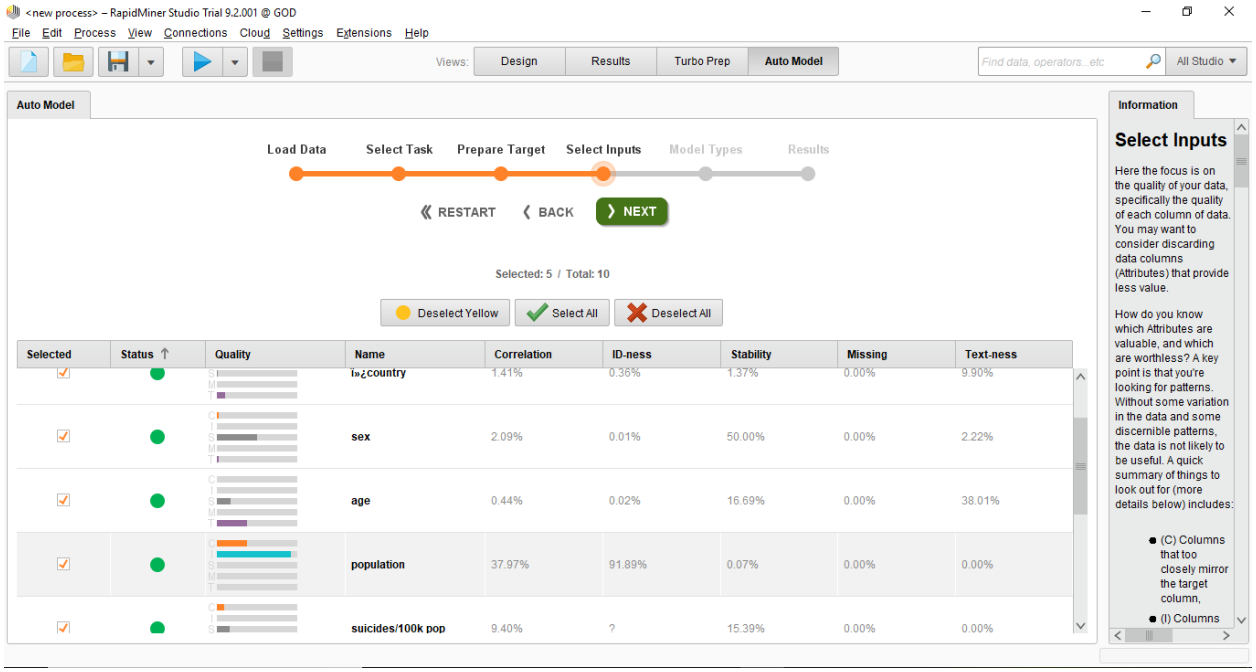


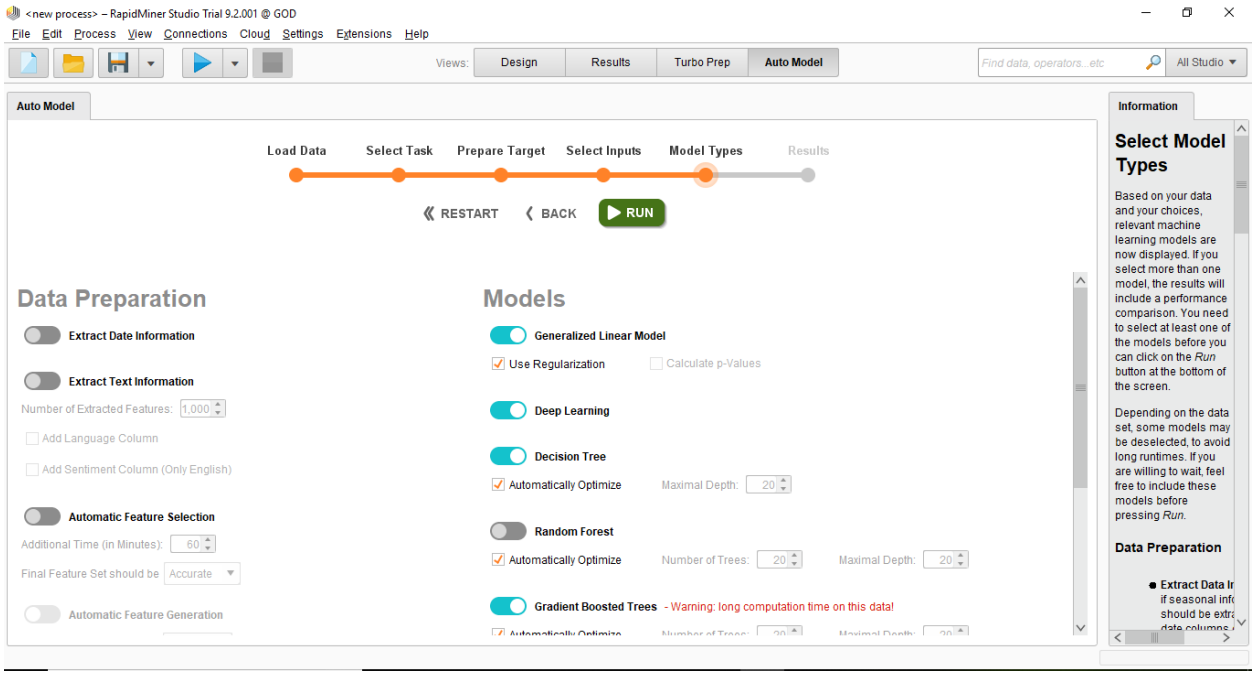
Python Graphs – 2

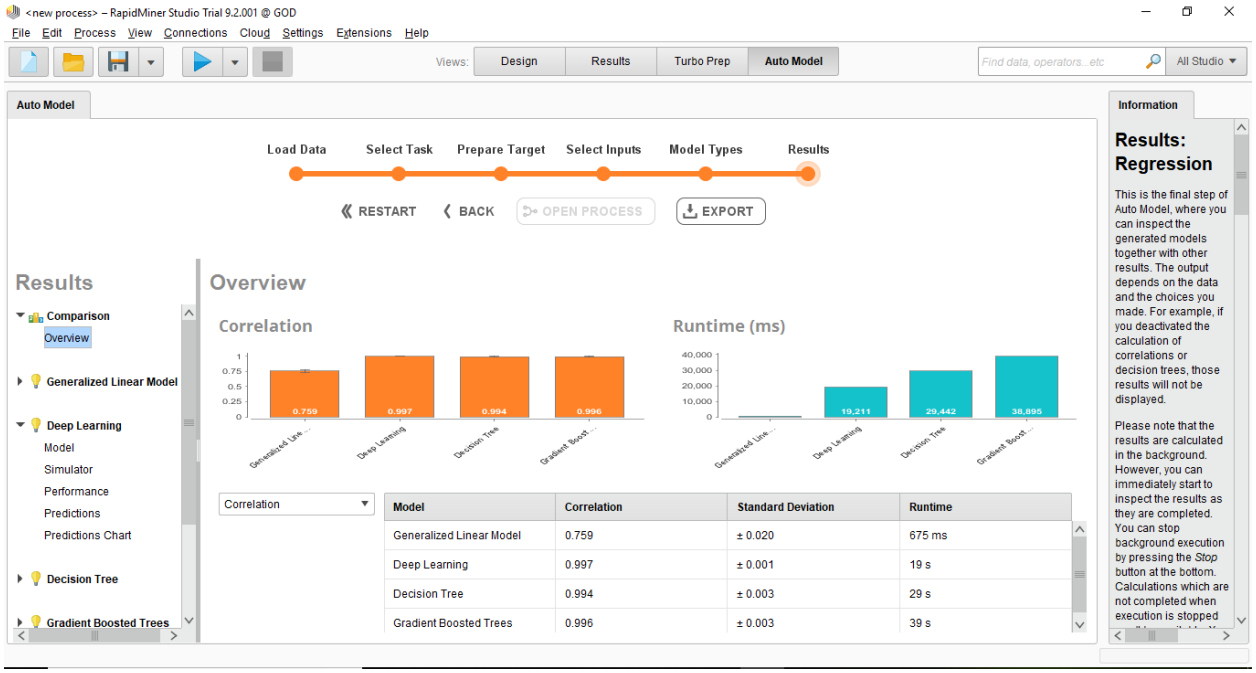
Rapid Miner Execution

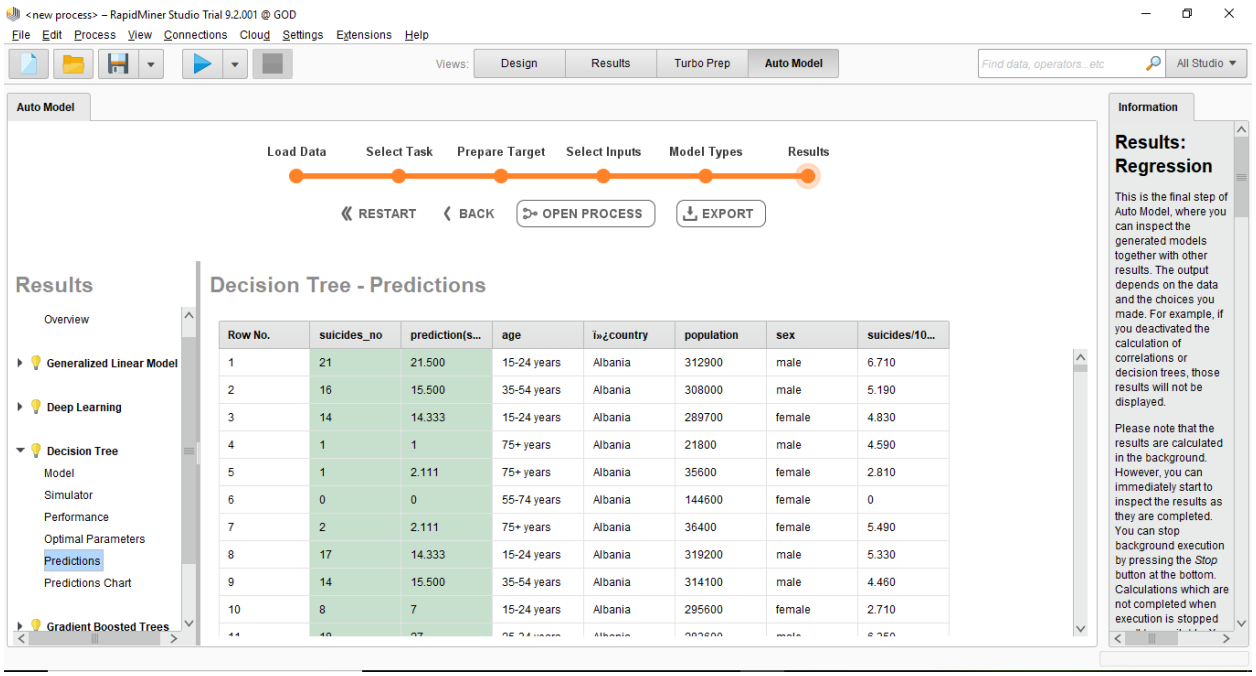





<new process> – RapidMiner Studio Trial 9.2.001 @ GOD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Auto Model
Load Data Select Task Prepare Target Select Inputs Model Types Results
RESTART BACK NEXT
Selected: 5 / Total: 10
Deselect Yellow Select All Deselect All
Selected Status Quality Name Correlation ID-ness Stability Missing Text-ness
i»¿country 1.41% 0.36% 1.37% 0.00% 9.90%
sex 2.09% 0.01% 50.00% 0.00% 2.22%
age 0.44% 0.02% 16.69% 0.00% 38.01%
population 37.97% 91.89% 0.07% 0.00% 0.00%
suicides/100k pop 9.40% ? 15.39% 0.00% 0.00%
Information
Select Inputs
Here the focus is on the quality of your data, specifically the quality of each column of data. You may want to consider discarding data columns (Attributes) that provide less value.
How do you know which Attributes are valuable, and which are worthless? A key point is that you're looking for patterns. Without some variation in the data and some discernible patterns, the data is not likely to be useful. A quick summary of things to look out for (more details below) includes:
(C) Columns that too closely mirror the target column,
(I) Columns


<new process> – RapidMiner Studio Trial 9.2.001 @ GOD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Auto Model
Load Data Select Task Prepare Target Select Inputs Model Types Results
RESTART BACK RUN
Data Preparation
Extract Date Information
Extract Text Information
Number of Extracted Features: 1,000
Add Language Column
Add Sentiment Column (Only English)
Automatic Feature Selection
Additional Time (in Minutes): 60
Final Feature Set should be Accurate
Automatic Feature Generation
Models
Generalized Linear Model
Use Regularization
Calculate p-Values
Deep Learning
Decision Tree
Automatically Optimize
Maximal Depth: 20
Random Forest
Automatically Optimize
Number of Trees: 20
Maximal Depth: 20
Gradient Boosted Trees - Warning: long computation time on this data!
Information
Select Model Types
Based on your data and your choices, relevant machine learning models are now displayed. If you select more than one model, the results will include a performance comparison. You need to select at least one of the models before you can click on the Run button at the bottom of the screen.
Depending on the data set, some models may be deselected, to avoid long runtimes. If you are willing to wait, feel free to include these models before pressing Run.
Data Preparation


<new process> – RapidMiner Studio Trial 9.2.001 @ GOD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc All Studio
Auto Model
Load Data Select Task Prepare Target Select Inputs Model Types Results
RESTART BACK OPEN PROCESS EXPORT
Results
Comparison
Overview
Generalized Linear Model
Deep Learning
Model
Simulator
Performance
Predictions
Predictions Chart
Decision Tree
Gradient Boosted Trees
Overview
Correlation
Runtime (ms)
0.759
0.997
0.994
0.996
19,211
29,442
38,895
Correlation
Model | Correlation | Standard Deviation | Runtime
Generalized Linear Model | 0.759 | ± 0.020 | 675 ms
Deep Learning | 0.997 | ± 0.001 | 19 s
Decision Tree | 0.994 | ± 0.003 | 29 s
Gradient Boosted Trees | 0.996 | ± 0.003 | 39 s
Information
Results: Regression
This is the final step of Auto Model, where you can inspect the generated models together with other results. The output depends on the data and the choices you made. For example, if you deactivated the calculation of correlations or decision trees, those results will not be displayed.
Please note that the results are calculated in the background. However, you can immediately start to inspect the results as they are completed. You can stop background execution by pressing the Stop button at the bottom. Calculations which are not completed when execution is stopped


<new process> – RapidMiner Studio Trial 9.2.001 @ GOD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc All Studio
Auto Model
Load Data Select Task Prepare Target Select Inputs Model Types Results
RESTART BACK OPEN PROCESS EXPORT
Results
Overview
Generalized Linear Model
Deep Learning
Decision Tree
Model
Simulator
Performance
Optimal Parameters
Predictions
Predictions Chart
Gradient Boosted Trees
Decision Tree - Predictions
Row No. | suicides_no | prediction(s... | age | ï»¿country | population | sex | suicides/10...
1 | 21 | 21.500 | 15-24 years | Albania | 312900 | male | 6.710
2 | 16 | 15.500 | 35-54 years | Albania | 308000 | male | 5.190
3 | 14 | 14.333 | 15-24 years | Albania | 289700 | female | 4.830
4 | 1 | 1 | 75+ years | Albania | 21800 | male | 4.590
5 | 1 | 2.111 | 75+ years | Albania | 35600 | female | 2.810
6 | 0 | 0 | 55-74 years | Albania | 144600 | female | 0
7 | 2 | 2.111 | 75+ years | Albania | 36400 | female | 5.490
8 | 17 | 14.333 | 15-24 years | Albania | 319200 | male | 5.330
9 | 14 | 15.500 | 35-54 years | Albania | 314100 | male | 4.460
10 | 8 | 7 | 15-24 years | Albania | 295600 | female | 2.710
Information
Results: Regression
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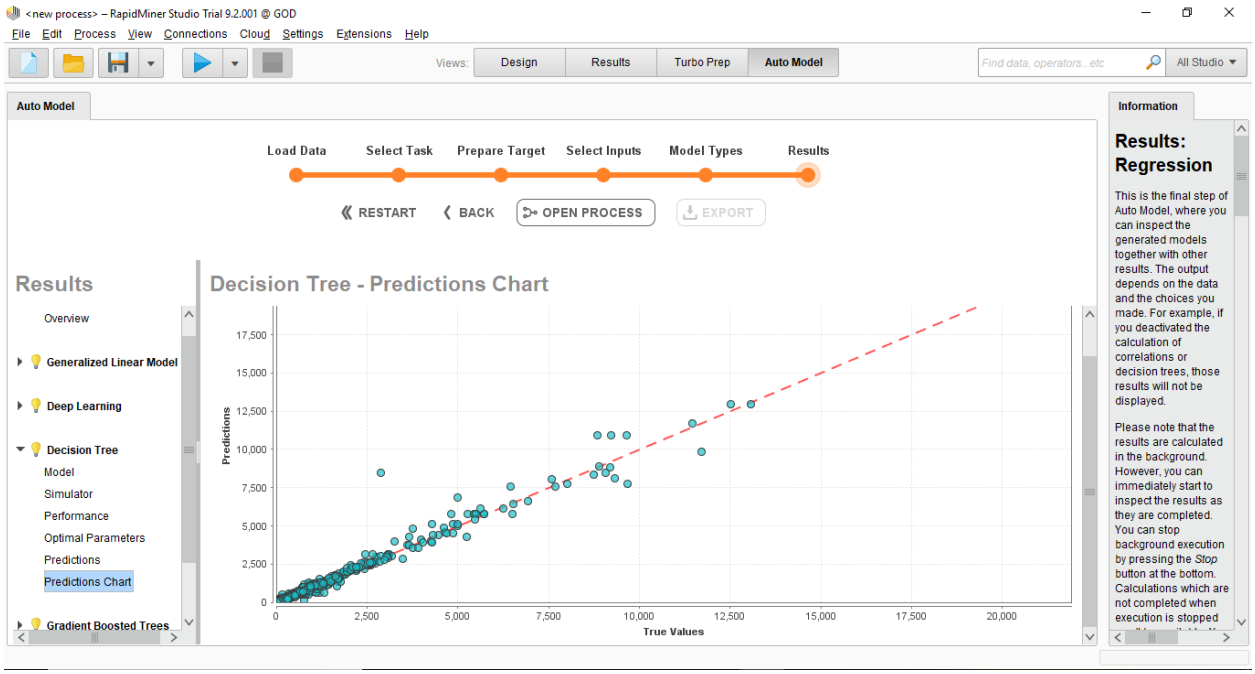
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RESTART
BACK
OPEN PROCESS
EXPORT
Results
Overview
Generalized Linear Model
Deep Learning
Decision Tree
Model
Simulator
Performance
Optimal Parameters
Predictions
Predictions Chart
Gradient Boosted Trees
Decision Tree - Predictions Chart
Predictions
True Values
0
2,500
5,000
7,500
10,000
12,500
15,000
17,500
20,000
Information
Results: Regression
This is the final step of Auto Model, where you can inspect the generated models together with other results. The output depends on the data and the choices you made. For example, if you deactivated the calculation of correlations or decision trees, those results will not be displayed.
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