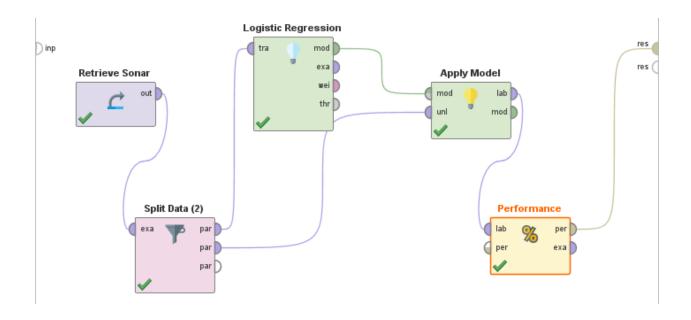
Lab Submission 14

Instructor: Basit Ali

Maimoona Khilji

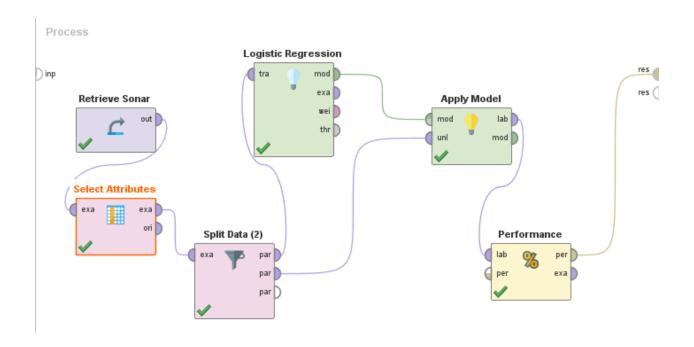
1. Use Logistic Regression and build a model using Sonar Dataset.



accuracy: 70.97%

	true Rock	true Mine	class precision
pred. Rock	16	5	76.19%
pred. Mine	13	28	68.29%
class recall	55.17%	84.85%	

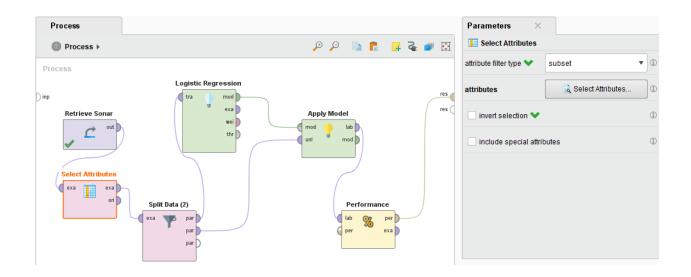
2. Use single independent variable for prediction and calculate accuracy.



accuracy: 54.84%

	true Rock	true Mine	class precision
pred. Rock	13	12	52.00%
pred. Mine	16	21	56.76%
class recall	44.83%	63.64%	

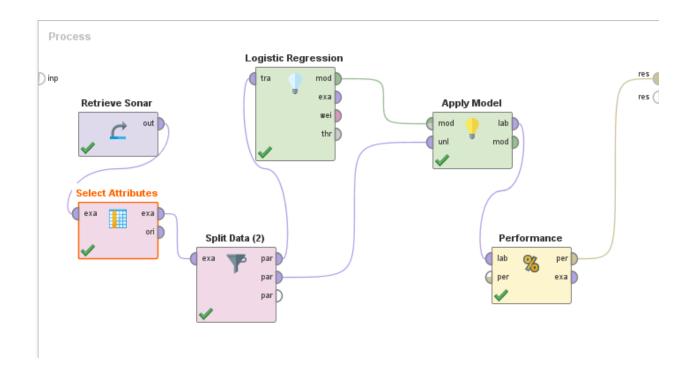
3. Use two independent variables for prediction and calculate accuracy score.



accuracy: 53.23%

	true Rock	true Mine	class precision
pred. Rock	16	16	50.00%
pred. Mine	13	17	56.67%
class recall	55.17%	51.52%	

4. Use all the independent variables for prediction and calculate accuracy score.



accuracy: 70.97%

	true Rock	true Mine	class precision
pred. Rock	16	5	76.19%
pred. Mine	13	28	68.29%
class recall	55.17%	84.85%	

5. Which one performs better?

All independent variables perform better than the other conditions.

6. Use cross validation for the best performed model.

