Maimoona Khilji
BS-DS
Semester 6

Lab Submission 11

Instructor: Basit Ali

Maimoona Khilji

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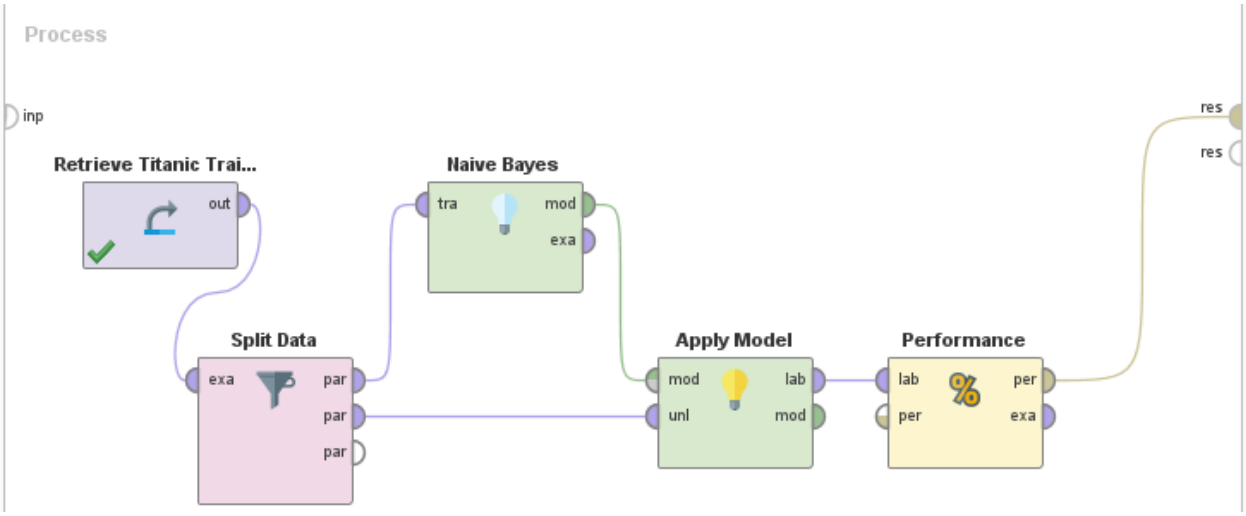
1. **Go back to the data view of the test data. In the top right, you will find a filter. Use the filter setting wrong predictions and note how the data itself changes, but also note now the number next to the selection box changes. How many examples have been in the test set in total? And, how many got a wrong classification?**

Total number of examples in test set= 275

Number of wrong classification= 54



2. **Compare its finding with confusion matrix.**

accuracy: 80.36%

	true Yes	true No	class precision
pred. Yes	76	25	75.25%
pred. No	29	145	83.33%
class recall	72.38%	85.29%	

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3. **Change training set to 50% and test to 50% do accuracy effect or not?**

accuracy: 79.04%

	true Yes	true No	class precision
pred. Yes	113	34	76.87%
pred. No	62	249	80.06%
class recall	64.57%	87.99%	

4. **Replace Naive Bayes with decision tree check accuracy,**

accuracy: 79.27%

	true Yes	true No	class precision
pred. Yes	77	29	72.64%
pred. No	28	141	83.43%
class recall	73.33%	82.94%	

5. **Change training set to 30% and test to 100%. Check the accuracy with Naive Bayes?**

accuracy: 75.99%

	true Yes	true No	class precision
pred. Yes	185	86	68.27%
pred. No	83	350	80.83%
class recall	69.03%	80.28%	