Lab6 - Random Forests and Feature Selection

claudia.antunes@tecnico.ulisboa.pt   Switch account

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* Required

Dataset NYC collisions

Set 1 - Random Forests study *   15 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
Max depth (pre-pruning)	◯	◯	◯	◯	◯
Max Features	◯	◯	◯	◯	◯
Number of estimators	◯	◯	◯	◯	◯
Overfitting	◯	◯	◯	◯	◯

Set 1 – Random Forests best model *

10 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
Best model evaluation	○	○	○	○	○
Confusion Matrix	○	○	○	○	○
Features importance	○	○	○	○	○

Set 1 – Feature Selection Techniques *

10 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
Correlation study	○	○	○	○	○
Variance study	○	○	○	○	○
Irrelevant variables - other	○	○	○	○	○

Set 1 – Feature Selection Impact *

15 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
Naive Bayes	○	○	○	○	○

| KNN | ○ | ○ | ○ | ○ | ○ |
| Random Forests | ○ | ○ | ○ | ○ | ○ |

Page 2 of 3

Back   Next   Clear form

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Dataset AirQuality

Set 2 - Random Forests study *   15 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
Max depth (pre-pruning)	○	○	○	○	○
Max Features	○	○	○	○	○
Number of estimators	○	○	○	○	○
Overfitting	○	○	○	○	○

Set 2 – Random Forests best model *

10 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
Best model evaluation	○	○	○	○	○
Confusion Matrix	○	○	○	○	○
Features importance	○	○	○	○	○

Set 2 – Feature Selection Techniques *

10 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
Correlation study	○	○	○	○	○
Variance study	○	○	○	○	○
Irrelevant variables - other	○	○	○	○	○

Set 2 – Feature Selection Impact *

15 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
Naive Bayes	○	○	○	○	○

	○	○	○	○	○
KNN	○	○	○	○	○
Random Forests	○	○	○	○	○

Page 3 of 3

Back   Submit   Clear form

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