Lab5 - Decision Trees and Overfitting

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* Required

Dataset NYC collisions

Set 1 – Decision Trees study *   15 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
Criteria: entropy + gini	○	○	○	○	○
Max depth (pre-pruning)	○	○	○	○	○
Impurity decrease (post-pruning)	○	○	○	○	○

Set 1 – Decision Trees study *   15 points

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

Set 1 – Overfitting study *   20 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
KNN	○	○	○	○	○
Decision Trees	○	○	○	○	○

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Dataset AirQuality

Set 2 - Decision Trees study *   15 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
Criteria: entropy + gini	◯	◯	◯	◯	◯
Max depth (pre-pruning)	◯	◯	◯	◯	◯
Impurity decrease (post-pruning)	◯	◯	◯	◯	◯

Set 2 – Decision Trees study * 　　　　　　　　　　　　　　　　15 points

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

Set 2 – Overfitting study * 　　　　　　　　　　　　　　　　20 points

	0 - None	1 - Low	2 - Average	3 - High	Non Applicable
KNN	○	○	○	○	○
Decision Trees	○	○	○	○	○

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