Lab7 - Neural Nets and GradientBoosting

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Dataset NYC collisions

Set 1 - Gradient Boosting * 19 points

	None	Reasonable	Good	NA
Max depth	○	○	○	○
Nr of estimators	○	○	○	○
Learning rate variation	○	○	○	○
Overfitting	○	○	○	○
Feature Selection	○	○	○	○

Set 1 - Gradient Boosting best model *

6 points

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

Set 1 - Multi-Layer Perceptrons study *

19 points

	None	Reasonable	Good	NA
Nr of iterations	○	○	○	○
Learning rate variation	○	○	○	○
Learning rate values	○	○	○	○
Overfitting	○	○	○	○
Feature Selection	○	○	○	○

Set 1 - Multi-Layer Perceptron best model * 6 points

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

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Dataset AirQuality

Set 2 - Gradient Boosting * 19 points

	None	Reasonable	Good	NA
Max depth	○	○	○	○
Nr of estimators	○	○	○	○
Learning rate variation	○	○	○	○
Overfitting	○	○	○	○
Feature Selection	○	○	○	○

Set 2 - Gradient Boosting best model *

6 points

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

Set 2 - Multi-Layer Perceptrons study *

19 points

	None	Reasonable	Good	NA
Nr of iterations	○	○	○	○
Learning rate variation	○	○	○	○
Learning rate values	○	○	○	○
Overfitting	○	○	○	○
Feature Selection	○	○	○	○

Set 2 - Multi-Layer Perceptron best model *

6 points

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

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