Sapienza University of Rome, Italy Master in Artificial Intelligence and Robotics Machine Learning (2018/19)

## Exercise 3. Linear classification

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Exercise 3. Linear classification

1/3

2 / 3

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## Exercise 3. Linear Classification

- Download the Python code for linear classification
- Install libraries and run the main.py script (use option -h for help)
- Run experiments with different classifiers and presence of outliers
- Understand robustness to outliers
- For the SimplePercepton model, understand the effect of the eta and niter parameters
- Look into the code and modify it to consider other study cases (e.g., increase the variance in the generation of the data set to generate non-linearly separable data).

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## Learning goals

- Understanding how linear classifiers work and the problem of outliers
- Running experimental sessions
- Understanding Python code for ML
- Understanding how to use a ML library

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3 / 3