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XNDL - Lab

Perceptron and linear separability

Perceptron

- ❖ Single layer
- ❖ One weight per input var
- ❖ One bias
- ❖ One output

Lab3

- ❖ Code for
 - Train a perceptron
 - Plot its learning curve
 - Display its decision boundary
 - $ax + by + c = 0$
 - Print predictions

Bool Gate experiments

- ❖ Try solving different binary operators by changing the labels
 - AND, OR, NAND, NOR, XOR, XNOR
- ❖ Try different activation functions
- ❖ Add metrics report

Breast Cancer dataset

- ❖ Try solving the task from `sklearn.datasets`
- ❖ Use 2 features for simplicity



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The end