

CodeLabs - Machine Learning

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Program

1. Regression with PyTorch and NN
2. Classification with PyTorch and NN
3. Cross-validation and Tuning with sklearn

BASICS

ML with PyTorch

- PyTorch has all the tools needed for setting up well-organized workflows for machine learning
- ⇒ Please recall the tutorial example [pytorch_102](#).

REGRESSION and CLASSIFICATION

Regression and Classification with PyTorch

- Linear regression tutorial with PyTorch, numpy and sklearn comparisons
⇒ [02Examples/linreg/torch_linreg_tutorial.ipynb](#)
- Simple NN classification with Pytorch
⇒ [02Examples/ml/torch_NN_class_simple.ipynb](#)
- NN regression on socio-economic housing data
⇒ [02Examples/ml/pytorch_NN_reg.ipynb](#)
- NN classification on diabetes clinical data
⇒ [02Examples/ml/pytorch_NN_classif.ipynb](#)

CROSS-VALIDATION and TUNING

CV and Tuning

- Precision-Recall curve for heart disease data
⇒ [02Examples/ml/ML_prec_recall.ipynb](#)
- See also the numerous [Basic Course Examples](#)

References

1. Please consult the list provided on the website:
[CODE REFERENCES](#)