CodeLabs – PyTorch

Mark Asch - IMU/VLP/CSU

2023

Program

1. PyTorch introduction

2. PyTorch workflow

BASICS

PyTorch Basics

Tensors are the building blocks of Machine Learning

- Download the tutorial `pytorch_101`.

- Go through it, line-by-line, modify everything and observe the effects.

WORKFLOWS

A typical workflow

> **Note**
>
> This workflow is for general training of any machine learning algorithm.

- We present, in detail a PyTorch workflow for learning a straight line using a stochastic gradient algorithm.

- In later examples, we will code the optimization manually, since this will be needed for solving other optimization problems arising in inverse paroblems, data assimilation and scientific ML.

References

1. Please consult the list provided on the website:
   CODE REFERENCES