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Chapter 1: Introduction

Date: 04092020

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Signal processing (SP) ↔ Machine learning (ML): SP is model based, ML is learning-base. data-driven

ML task: Classification: discrete valued output, Regression continuous valued output

Supervised learning: desired output or ground truth is available

Unsupervised learning: desired output/ground truth is not available; Most of DL is supervised learning

3 Steps of ML > Training → Test → Deployment on new Data

Neural Network (NN): input layer $\xrightarrow{\text{Inputshape}}$ hidden layer → ... → hidden layer → output layer → output

Chapter 2: Tools for Deep Learning

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Chapter 3: Machine Learning Basics

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