Note on Machine Learning Theory

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Date: February 1, 2023

1 Introduction

Definition 1.1 (Supervised Learning)

Definition 1.2 (Unsupervised Learning)

Definition 1.3 (Online Learning)

Definition 1.4 (Mathematical Machine Learning Model)

- 2 Model-based Statistical Learning
- 3 Model-free Machine Learning
- 4 Theory of Representation
- **5 Theory of Convergence**