MACHINE LEARNING

ERNEST YEUNG ERNESTYALUMNI@GMAIL.COM

Contents

Abstract. Everything about Machine Learning.

Part 1. Introduction

0.0.1. *Terminology.*
inputs ≡ independent variables ≡ predictors (cf. statistics) ≡ features (cf. pattern recognition)
outputs ≡ dependent variables ≡ responses
cf. Chapter 2 Overview of Supervised Learning, Section 2.1 Introduction of Hastie, Tibshirani, and Friedman (2009) [1]
cf. Chapter 2 Overview of Supervised Learning, Section 2.2 Variable Types and Terminology of Hastie, Tibshirani, and Friedman (2009) [1]

0.0.2. *FinSet.*
The category FinSet ∈ Cat is the category of all finite sets (i.e. Obj(FinSet) ≡ all finite sets) and all functions in between them; note that FinSet ⊂ Set [1]

Recall that the FinSet *skeletal* is

Date: 24 avril 2016.
Key words and phrases. Machine Learning, statistical inference, statistical inference learning.
[1]nlab FinSet https://ncatlab.org/nlab/show/FinSet

References

[1] Trevor Hastie, Robert Tibshirani, Jerome Friedman. **The Elements of Statistical Learning: Data Mining, Inference, and Prediction**, Second Edition (Springer Series in Statistics) 2nd ed. 2009. Corr. 7th printing 2013 Edition. ISBN-13: 978-0387848570. https://web.stanford.edu/~hastie/local.ftp/Springer/OLD/ESLII_print4.pdf