Applied Statistics - Notes - v0.1.0

260236

March 2025

Preface

Every theory section in these notes has been taken from two sources:

- Applied Multivariate Statistical Analysis. [3]
- An Introduction to Statistical Learning: with Applications in Python. [2]
- The Elements of Statistical Learning: Data Mining, Inference, and Prediction, Second Edition. [1]
- Course slides. [4]

About:

GitHub repository

These notes are an unofficial resource and shouldn't replace the course material or any other book on applied statistics. It is not made for commercial purposes. I've made the following notes to help me improve my knowledge and maybe it can be helpful for everyone.

As I have highlighted, a student should choose the teacher's material or a book on the topic. These notes can only be a helpful material.

Contents

References

[1] T. Hastie, R. Tibshirani, and J. Friedman. *The Elements of Statistical Learning: Data Mining, Inference, and Prediction, Second Edition*. Springer Series in Statistics. Springer New York, 2009.

[2] G. James, D. Witten, T. Hastie, and R. Tibshirani. *An Introduction to Statistical Learning: with Applications in Python*. Springer Texts in Statistics. Springer New York, 2013.

[3] R.A. Johnson and D.W. Wichern. *Applied Multivariate Statistical Analysis*. Applied Multivariate Statistical Analysis. Pearson Prentice Hall, 2007.

[4] Beraha Mario. Applied statistics. Slides from the HPC-E master's degree course on Politecnico di Milano, 2024-2025.