My first LaTeX document

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Abstract

The goal of the Paper is to use to our first LaTeX document! and create a new Manuscript.

1 Introduction

The following is the background of this topic.

The restof the paper is organized as follows: The data are presented in Section 2 The tables are presented in Scetion 3 the Methods are presented in Section 4 Conclution contains in Section 5

2 Data

This is the first section.It displays Images

Figure 1 Shows the Scatterplot created

3 Tabels

It displays table 1.1

Table 1: This is my First Table

Observation	Distance
1	3
2	2
3	3.16
4	2.24
5	1.41
6	1.73

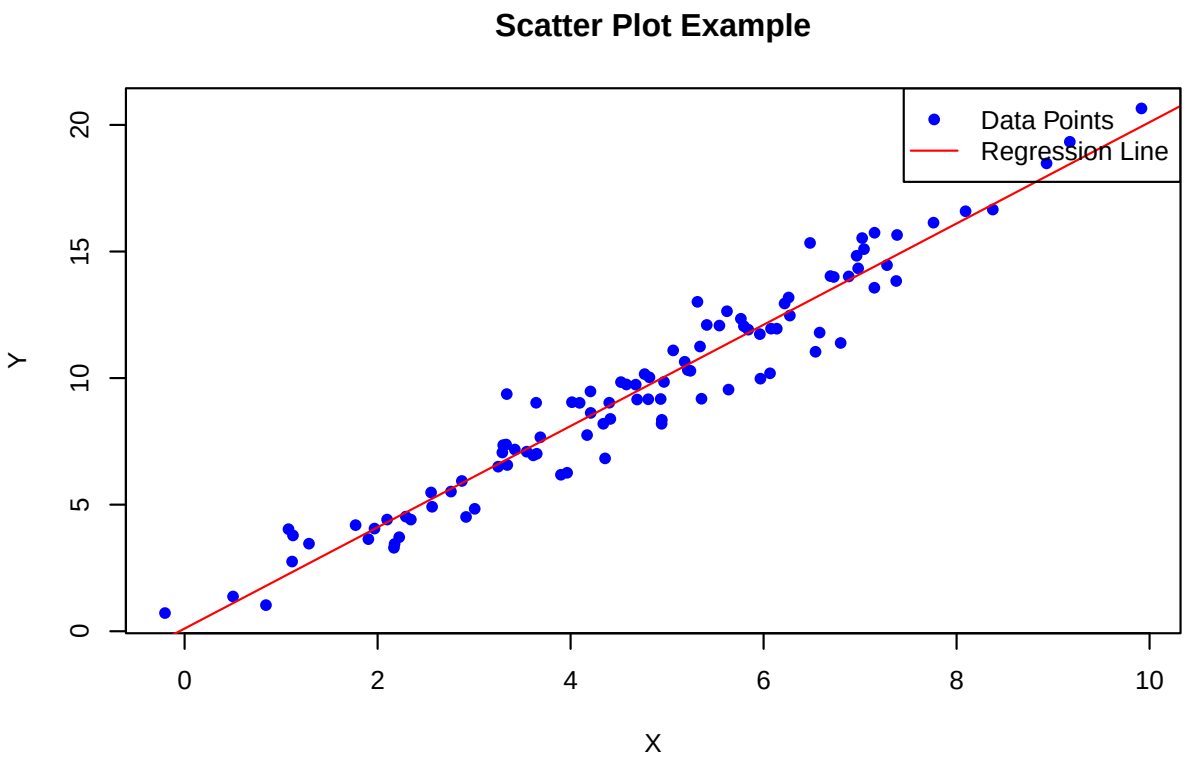

Figure 1: This is my first figure.

4 Methods

Here f is some fixed but unknown function of X1,...,Xp, and " is a random error term, which is independent of X and has mean zero. In this formula- error term tion, f represents the systematic information that X provides about Y. As shown below in the graph 1.2

4.1 Equations

This is the first section.It displays Math Equations.

- More generally, suppose that we observe a quantitative response Y and p different predictors, X1, X2,...,Xp. We assume that there is some relationship between Y and X = (X1, X2,...,Xp), which can be written in the very general form

$$Y = f(X) + \epsilon$$

- Consider a given estimate $\hat{f}$ and a set of predictors X, which yields the prediction $\hat{Y} = \hat{f}(X)$. Assume for a moment that both $\hat{f}$ and X are fixed, so that the only variability comes from ". Then, it is easy to show that

$$E(Y - \hat{Y})^2 = E[f(X) + \epsilon - f(X)]^2 = \underbrace{[f(X) - \hat{f}(X)]^2}_{Reducible} + \underbrace{Var(\epsilon)}_{Irreducible}$$

5 Conclusion

At the end i would like to conclude that making a Latex document is not easy. especially for a non coder background. Items that are cited:[2] and [1]

References

[1] Jasp: Graphical statistical software for common statistical designs. *Journal of statistical software*, 88(2):1–17, 2019.

[2] Trevor Hastie Robert Tibshirani Gareth James, Daniela Witten. *An Introduction to Statistical Learning with Applications in R*. Springer New York, NY, 2021.