

PROLOGUE

The first part of the book discusses the importance of understanding the context of the data being analyzed. It emphasizes the need for a clear research question and the selection of appropriate statistical methods. The author also highlights the importance of data quality and the potential pitfalls of using flawed data.

Method	Advantages	Disadvantages
Regression Analysis	Allows for the prediction of a continuous outcome variable based on one or more independent variables.	Assumes a linear relationship between variables and requires a large sample size.
ANOVA	Used to compare the means of three or more groups to determine if there are significant differences.	Requires the assumption of normality and equal variances across groups.
Chi-Square Test	Used to test for independence between two categorical variables.	Requires a large sample size and is sensitive to small expected cell counts.
Logistic Regression	Used to model the probability of a binary outcome based on one or more independent variables.	Assumes a log-linear relationship between the log-odds and the independent variables.

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