Principles of Regression Analysis

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Introduction

While correlation analysis helps in identifying associations or relationships between two variables,[1] the regression technique or regression analysis is used to "model" this relationship so as to be able to predict what will happen in a real-world setting. Let us understand this with something that happens in daily life. As children, we are often told by our parents that education is a vital part of our lives and a "good" education will help us get "good jobs" and thus "good wages"! If we were to explore the relationship between education and wages, we could think up two questions – a) Does a relationship exist between education and wages? And a related but more interesting and important question b) for every extra year spent in education, do wages commensurately increase [and if yes, by how much?][2] The latter question is moving into the realm of prediction. Regression attempts to answer these and similar questions regarding relationships between variables.

Correlation Versus Regression– Understanding the Distinction

The difference between correlation analysis and regression lies in the fact that the former focuses on the strength and direction of the relationship between two or more variables without making any assumptions about one variable being independent and the other dependent [see below], but regression analysis assumes a dependence or causal relationship between one or more independent variables and the dependent variable. A correlation analysis with a scatter plot and a regression line[1] is however a prerequisite to regression and both analyses are often carried out together.

Dependent and Independent Variables

An important first step before carrying out a regression analysis is to understand the concept of independent and dependent variables. An independent variable, as the name suggests is a "stand alone" variable, and one that remains unaffected by other variables that are measured in a study. The "dependent" variable is the one that is usually of interest to the researcher and alters in response to changes in the independent variable.

Let us understand this concept with the following two research questions – 1) "As age increases, does the risk of developing diabetes as measured by HbA1C or blood sugar levels increase? Or b) "Given that a patient has both diabetes and hypertension, what is his risk of developing coronary artery disease [CAD]"? In the former example, we are exploring the relationship between age and diabetes and in the latter, the relationship between two variables with a third variable– i.e., diabetes and hypertension with CAD. In the first example, age would be the independent variable while diabetes, which is dependent on age would become the "dependent" variable. In the second example, since CAD is associated with both diabetes and hypertension, CAD would become the dependent variable and diabetes and hypertension would be the two independent variables. If you will notice, diabetes in one example is a dependent variable and in the other, an independent variable. Thus, what is a dependent and what is an independent variable needs to be defined a priori by the researcher before carrying out the regression analysis. The choice of the variables would in turn be defined by the research question and the hypothesis being explored. Independent variables are often called predictor variables or exogenous variables and dependent variables are called prognostic or endogenous variables.

Types of Regression

Essentially in medical research, there are three common types of regression analyses that are used viz., linear, logistic regression and Cox regression. These are chosen depending on the type of variables that we are dealing with (Table 1). Cox regression is a special type of regression analysis that is applied to survival or "time to event "data and will be discussed in detail in the next article in the series.

Linear regression can be simple linear or multiple linear regression while Logistic regression could be Polynomial in certain cases (Table 1).

The type of regression analysis

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methodologies stochastic approaches applied to genome study It facilitates understanding of the statistical models and methods behind the major bioinformatics software packages which will help researchers choose the optimal algorithm to analyze their data and better interpret the results of their analyses Understanding existing statistical models and algorithms assists researchers to develop improved statistical methods to extract maximum information from their data Resourceful and easy to use Principles of Statistical Genomics is a comprehensive reference for researchers and graduate students studying statistical genomics **Principle of Statistics by Dr. Alok Gupta** Dr. Alok Gupta,2020-06-30 1 Statistics Meaning Nature and Limitation 2 Statistics Scope and Importance 3 Statistical Investigation 4 Process of Data Collection 5 Methods of Sampling 6 Preparation of Questionnaire 7 Classification and Tabulation of Data 8 Measures of Central Tendency 9 Quartiles 10 Geometric Mean and Harmonic Mean 11 Measures of Dispersion 12 Measures of Skewness 13 Analysis of Time Series 14 Correlation 15 Regression Analysis 16 Regression Analysis 17 Diagrammatic Presentation of Data 18 Graphic Presentation of Data Appendix Log Antilog Table **Statistical Principles and Techniques in Scientific and Social Research** W. J. Krzanowski,2007-06-07 This text provides a clear discussion of the basic statistical concepts and methods frequently encountered in statistical research Assuming only a basic level of Mathematics and with numerous examples and illustrations this text is a valuable resource for students and researchers in the Sciences and Social Sciences *Principles and Practice of Structural Equation Modeling* Rex B. Kline,2023-05-24 Significantly revised the fifth edition of the most complete accessible text now covers all three approaches to structural equation modeling SEM covariance based SEM nonparametric SEM Pearl s structural causal model and composite SEM partial least squares path modeling With increased emphasis on freely available software tools such as the R lavaan package the text uses data examples from multiple disciplines to provide a comprehensive understanding of all phases of SEM what to know best practices and pitfalls to avoid It includes exercises with answers rules to remember topic boxes and new self tests on significance testing regression and psychometrics The companion website supplies helpful primers on these topics as well as data syntax and output for the book s examples in files that can be opened with any basic text editor New to This Edition Chapters on composite SEM also called partial least squares path modeling or variance based SEM conducting SEM analyses in small samples and recent developments in mediation analysis Coverage of new reporting standards for SEM analyses piecewise SEM also called confirmatory path analysis comparing alternative models fitted to the same data and issues in multiple group SEM Extended tutorials on techniques for dealing with missing data in SEM and instrumental variable methods to deal with confounding of target causal effects Pedagogical Features New self tests of knowledge about background topics significance testing regression and psychometrics with scoring key and online primers End of chapter suggestions for further reading and exercises with answers Troublesome examples from real data with guidance for handling typical problems in analyses Topic boxes on special issues and boxed rules to remember Website promoting a learn by doing approach including data extensively

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Philosophy and Principles in Medicine Zekâi Şen,2022-12-01 Scientific Philosophy and Principles in Medicine is an accessible treatise on the philosophy that guides medical practice It lays the foundation of a multidisciplinary framework behind the development of the medical profession The book presents 10 chapters that cover issues that are frequently encountered by medical professionals in their career philosophical and linguistic principles of rational thought scientific crisp and fuzzy logic diagnostic aspects the history of medicine epistemological concepts approximate reasoning principles of medical wisdom numerical and graphical diagnostics and the collaboration of researchers involved in the fields of engineering and medicine The author of the book brings several years of teaching experience and medical practice into this reference with the goal of integrating principles of scientific philosophy and logic into medical education Readers will understand the process of devising rational diagnostic and treatment approaches that support human health as a generative process that seeks to solve problems through creativity rather than a classical process of following medical protocols This book is intended as a basic reference for medical students teachers and general readers interested in the application of logic philosophy and scientific principles in medicine **Principles and Methods in Receptor Binding** F. Cattabeni,2013-11-11 One of the major advances in the understanding of the mechanism of action of hormones neurotransmitters and drugs had arisen from the hypothesis that the physiological or pharmacological responses are trig gered by their interaction with specific cell compo nents termed receptors However the presence of receptors has been inferred from indirect data and only recently has it been possible to study the kinetics of the interaction between drug and receptors directly through the so called binding technique This NATO ASI on Principles and Methods in Receptor Binding was devoted mainly to the following aspects of the study of receptors the principles underlying the use of the binding technique the mathematical models necessary to interpret binding data the application of binding methods to specific receptors and finally a few selected examples of coupling between receptors and physiological re sponses In the chapters of this book special interest is devoted to the analysis of the simplest models for the interaction of receptors with their ligands either hormones or neurotransmitters or drugs The graphical techniques used to analyze the data from binding exper iments are extensively discussed together with the statistics that have to be used in binding analysis Moreover the basic concepts to analyze binding data using a personal computer are presented v vi PREFACE The factors which should be considered when setting up a binding assay such as choice of ligand and incubation conditions preparation of tissue termina tion of incubation are discussed

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