

Chapter – 9

STATISTICS

Statistics deals with the collection, classification, presentation, analysis and interpretation of numeric data (quantitative data).

The simplest form of numerical data is a series of values of a certain variable. Such values can be given as individual numbers. Therefore, such data is called an individual series or raw data.

In such a series, some numbers could occur repeatedly. In such cases, it would be convenient to group these numbers. This grouping can be done in two ways. The numbers can be arranged in ascending (or descending) order and the number of times each number occurs (its frequency) can be specified. This results in a discrete series. Alternately, we may choose to ignore the actual number and record only the fact that it lies between certain limits. Such grouping results in a continuous series. The values between the limits are called intervals. For example, consider the marks obtained by the students of a class. This data has been represented in each of the ways below.

Individual series
60, 55, 70, 60, 70
65, 75, 65, 70, 55
58, 74, 67, 68, 73

Discrete series

Frequency	2	1	2	2	1	1	3	1	1	1
Number	55	58	60	65	67	68	70	73	74	75

Continuous series

We denote the marks obtained by the students as

Intervals	Frequency
$x \leq 55$	2
$55 < x \leq 60$	3
$60 < x \leq 65$	2
$65 < x \leq 70$	5
$70 < x \leq 75$	3

Collection of data, especially on a large scale, is typically an expensive process and requires big teams of field workers. Therefore it needs careful planning. The primary consideration is the purpose for which the collected data will be used.

After data has been collected, classified and presented, it has to be analysed and interpreted. To analyse data, the important features of the data have to be identified and relations between quantities (variables) have to be studied. Two important features of any data are the central tendency and dispersion. Instead of thinking of all the numbers in a set, we would like to think of a typical number, the 'central' value. Two sets of numbers, which may have the same 'central' value, may differ in terms of the variation of all the numbers in the set, i.e., the extent to which the numbers 'disperse' from this central value.

Various quantitative measures can be defined to measure these two properties, i.e. central tendency and dispersion.

In this chapter, we shall limit ourselves to an individual series and study such properties.

I. Measures of Central Tendencies

The measures we discuss here are

- (A) Arithmetic Mean,
- (B) Geometric Mean,
- (C) Harmonic Mean,
- (D) Median and
- (E) Mode.

1. Arithmetic Mean (A.M.) (\bar{x})

Given x_1, x_2, \dots, x_n (n individual items)

$$A.M. = \bar{x} = \frac{x_1 + x_2 + \dots + x_n}{n}$$

or $\bar{x} = \frac{\text{Sum of the observations}}{\text{The number of observations}}$

Examples

- (i) The arithmetic mean of (5, 8, 9, 14, -16) is

$$= \frac{5 + 8 + 9 + 14 - 16}{5} = \frac{20}{5} = 4$$
- (ii) The arithmetic mean of (3, 4, 5, 6, 7, 8, 9, 10) is

$$= \frac{3 + 4 + 5 + 6 + 7 + 8 + 9 + 10}{8} = \frac{52}{10} = 5.2$$

Note:

- (a) The algebraic sum of deviations about the mean is 0 or $\sum(x - \bar{x}) = 0$.
- (b) The arithmetic mean of two numbers a, b is $\frac{a+b}{2}$.
- (c) If $b = AM$ of (a, c) , then a, b and c are in arithmetic progression.

2. Geometric Mean (G.M.)

Given x_1, x_2, \dots, x_n (n individual items all being positive)

$$G.M. = (x_1 \cdot x_2 \cdot \dots \cdot x_n)^{1/n}$$

or G.M. = n^{th} root of the product of the numbers.

Examples

- (i) The geometric mean of (10, 30, 90) is

$$= (10 \times 30 \times 90)^{1/3}$$

$$= (10 \times 30 \times 3 \times 30)^{1/3}$$

$$= (30 \times 30 \times 30)^{1/3} = 30$$
- (ii) The geometric mean of (24, 20, 15, 45, 75) is

$$= (8 \times 3 \times 5 \times 4 \times 3 \times 5 \times 3^2 \times 5 \times 3 \times 5^2)^{1/5}$$

$$= (2^2 \times 3^2 \times 5^2)^{1/5}$$

$$= 2 \times 3 \times 5 = 30$$

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Dr S P Gupta, Dr P K Gupta



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Kennedy Behrman,2021-10-12 Learn all the foundational Python you ll need to solve real data science problems Data science and machine learning two of the world s hottest fields are attracting talent from a wide variety of technical business and liberal arts disciplines Python the world s 1 programming language is also the most popular language for data science and machine learning This is the first guide specifically designed to help millions of people with widely diverse backgrounds learn Python so they can use it for data science and machine learning Leading data science instructor and practitioner Kennedy Behrman first walks through the process of learning to code for the first time with Python and Jupyter notebook then introduces key libraries every Python data science programmer needs to master Once you ve learned these foundations Behrman introduces intermediate and applied Python techniques for real world problem solving Master Google colab notebook Data Science programming Manipulate data with popular Python libraries such as pandas and numpy Apply Python Data Science recipes to real world projects Learn functional programming essentials unique to Data Science Access case studies chapter exercises learning assessments comprehensive Jupyter based Notebooks and a complete final project Throughout Foundational Python for Data Science presents hands on exercises learning assessments case studies and more all created with colab Jupyter compatible notebooks so you can execute all coding examples interactively without installing or configuring any software

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Matrix Mathematics Dennis S. Bernstein,2009-07-06 When first published in 2005 Matrix Mathematics quickly became the essential reference book for users of matrices in all branches of engineering science and applied mathematics In this fully updated and expanded edition the author brings together the latest results on matrix theory to make this the most complete current and easy to use book on matrices Each chapter describes relevant background theory followed by specialized results Hundreds of identities inequalities and matrix facts are stated clearly and rigorously with cross references citations to the literature and illuminating remarks Beginning with preliminaries on sets functions and relations Matrix Mathematics covers all of the major topics in matrix theory including matrix transformations polynomial matrices matrix decompositions generalized inverses Kronecker and Schur algebra positive semidefinite matrices vector and matrix norms the matrix exponential and stability theory and linear systems and control theory Also included are a detailed list of symbols a summary of notation and conventions an extensive bibliography and author index with page references and an exhaustive subject index This significantly expanded edition of Matrix Mathematics features a wealth of new material on graphs scalar identities and inequalities alternative partial orderings matrix pencils finite groups zeros of multivariable transfer functions roots of polynomials convex functions and matrix norms Covers hundreds of important and useful results on matrix theory many never before available in any book Provides a list of symbols and a summary of conventions for easy

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ecology evolution and conservation biology across the entire spectrum of life This novel book provides the reader with the fundamentals of data collection model construction analyses and interpretation across a wide repertoire of demographic techniques and protocols It introduces the novice demographer to a broad range of demographic methods including abundance based models life tables matrix population models integral projection models integrated population models individual based models and more Through the careful integration of data collection methods analytical approaches and applications clearly guided throughout with fully reproducible R scripts the book provides an up to date and authoritative overview of the most popular and effective demographic tools Demographic Methods across the Tree of Life is aimed at graduate students and professional researchers in the fields of demography ecology animal behaviour genetics evolutionary biology mathematical biology and wildlife management

Statistics of Directional Data K. V. Mardia, 2014-07-03 Probability and Mathematical Statistics A Series of Monographs and Textbooks Statistics of Directional Data aims to provide a systematic account of statistical theory and methodology for observations which are directions The publication first elaborates on angular data and frequency distributions descriptive measures and basic concepts and theoretical models Discussions focus on moments and measures of location and dispersion distribution function corrections for grouping calculation of the mean direction and the circular variance interrelations between different units of angular measurement and diagrammatical representation The book then examines fundamental theorems and distribution theory point estimation and tests for samples from von Mises populations The text takes a look at non parametric tests distributions on spheres and inference problems on the sphere Topics include tests for axial data point estimation distribution theory moments and limiting distributions and tests of goodness of fit and tests of uniformity The publication is a dependable reference for researchers interested in probability and mathematical statistics

Math for Deep Learning Ronald T. Kneusel, 2021-12-07 Math for Deep Learning provides the essential math you need to understand deep learning discussions explore more complex implementations and better use the deep learning toolkits With Math for Deep Learning you ll learn the essential mathematics used by and as a background for deep learning You ll work through Python examples to learn key deep learning related topics in probability statistics linear algebra differential calculus and matrix calculus as well as how to implement data flow in a neural network backpropagation and gradient descent You ll also use Python to work through the mathematics that underlies those algorithms and even build a fully functional neural network In addition you ll find coverage of gradient descent including variations commonly used by the deep learning community SGD Adam RMSprop and Adagrad Adadelata

A Course in Statistics with R Prabhanjan N. Tattar, Suresh Ramaiah, B. G. Manjunath, 2016-03-15 Integrates the theory and applications of statistics using R A Course in Statistics with R has been written to bridge the gap between theory and applications and explain how mathematical expressions are converted into R programs The book has been primarily designed as a useful companion for a Masters student during each semester of the course but will also help applied

statisticians in revisiting the underpinnings of the subject With this dual goal in mind the book begins with R basics and quickly covers visualization and exploratory analysis Probability and statistical inference inclusive of classical nonparametric and Bayesian schools is developed with definitions motivations mathematical expression and R programs in a way which will help the reader to understand the mathematical development as well as R implementation Linear regression models experimental designs multivariate analysis and categorical data analysis are treated in a way which makes effective use of visualization techniques and the related statistical techniques underlying them through practical applications and hence helps the reader to achieve a clear understanding of the associated statistical models Key features Integrates R basics with statistical concepts Provides graphical presentations inclusive of mathematical expressions Aids understanding of limit theorems of probability with and without the simulation approach Presents detailed algorithmic development of statistical models from scratch Includes practical applications with over 50 data sets

Linear Algebra, Data Science, and Machine Learning Jeff Calder, Peter J. Olver, 2025-08-25 This text provides a mathematically rigorous introduction to modern methods of machine learning and data analysis at the advanced undergraduate beginning graduate level The book is self contained and requires minimal mathematical prerequisites There is a strong focus on learning how and why algorithms work as well as developing facility with their practical applications Apart from basic calculus the underlying mathematics linear algebra optimization elementary probability graph theory and statistics is developed from scratch in a form best suited to the overall goals In particular the wide ranging linear algebra components are unique in their ordering and choice of topics emphasizing those parts of the theory and techniques that are used in contemporary machine learning and data analysis The book will provide a firm foundation to the reader whose goal is to work on applications of machine learning and or research into the further development of this highly active field of contemporary applied mathematics To introduce the reader to a broad range of machine learning algorithms and how they are used in real world applications the programming language Python is employed and offers a platform for many of the computational exercises Python notebooks complementing various topics in the book are available on a companion GitHub site specified in the Preface and can be easily accessed by scanning the QR codes or clicking on the links provided within the text Exercises appear at the end of each section including basic ones designed to test comprehension and computational skills while others range over proofs not supplied in the text practical computations additional theoretical results and further developments in the subject The Students Solutions Manual may be accessed from GitHub Instructors may apply for access to the Instructors Solutions Manual from the link supplied on the text's Springer website The book can be used in a junior or senior level course for students majoring in mathematics with a focus on applications as well as students from other disciplines who desire to learn the tools of modern applied linear algebra and optimization It may also be used as an introduction to fundamental techniques in data science and machine learning for advanced undergraduate and graduate students or researchers from other areas including statistics computer science

engineering biology economics and finance and so on Business Statistics & Business Mathematics Dr S P Gupta, Dr P K Gupta, 2022-05-06 This textbook covers the complete syllabus in the Business Mathematics Business Statistics paper of B Com 2nd year students The Book has been designed strictly according to the latest updated syllabus prescribed by the University of Delhi Besides revising and simplifying the text a number of illustrations and examples are added to explain various concepts introduced in the text Also new problems mostly from recent university examinations have been added in this edition At the same time old stereotype problems have been removed In fact the whole book has been rewritten and given a new look altogether Salient Features 1 The Book covers the complete syllabus in Business Mathematics Business Statistics paper of B Com examination 2 There are detailed self contained chapters on all the syllabus elements 3 Part I of the book starts with the introduction to Statistics and discusses measures of central tendency and of variation correlation regression analysis index numbers time series and interpretation of data 4 Part II of the book begins by introducing the concept of matrices and determinants Their applications to business and economic problems are discussed in the chapter 5 The Concept of differentiation integration along with their applications are given in chapters 3 4 of part II 6 The language used in the text is simple and the subject matter has been presented in a lucid and straightforward style 7 Special care has been taken to develop the concepts in an easy to understand manner and are self explanatory *Analysis of Variance, Design, and Regression* Ronald Christensen, 2018-09-03 Analysis of Variance Design and Regression Linear Modeling for Unbalanced Data Second Edition presents linear structures for modeling data with an emphasis on how to incorporate specific ideas hypotheses about the structure of the data into a linear model for the data The book carefully analyzes small data sets by using tools that are easily scaled to big data The tools also apply to small relevant data sets that are extracted from big data New to the Second Edition Reorganized to focus on unbalanced data Reworked balanced analyses using methods for unbalanced data Introductions to nonparametric and lasso regression Introductions to general additive and generalized additive models Examination of homologous factors Unbalanced split plot analyses Extensions to generalized linear models R Minitab and SAS code on the author's website The text can be used in a variety of courses including a yearlong graduate course on regression and ANOVA or a data analysis course for upper division statistics students and graduate students from other fields It places a strong emphasis on interpreting the range of computer output encountered when dealing with unbalanced data A Mathematics Course for Political and Social Research Will H. Moore, David A. Siegel, 2013-07-24 Political science and sociology increasingly rely on mathematical modeling and sophisticated data analysis and many graduate programs in these fields now require students to take a math camp or a semester long or yearlong course to acquire the necessary skills Available textbooks are written for mathematics or economics majors and fail to convey to students of political science and sociology the reasons for learning often abstract mathematical concepts A Mathematics Course for Political and Social Research fills this gap providing both a primer for math novices in the social sciences and a

handy reference for seasoned researchers The book begins with the fundamental building blocks of mathematics and basic algebra then goes on to cover essential subjects such as calculus in one and more than one variable including optimization constrained optimization and implicit functions linear algebra including Markov chains and eigenvectors and probability It describes the intermediate steps most other textbooks leave out features numerous exercises throughout and grounds all concepts by illustrating their use and importance in political science and sociology Uniquely designed and ideal for students and researchers in political science and sociology Uses practical examples from political science and sociology Features Why Do I Care sections that explain why concepts are useful Includes numerous exercises Complete online solutions manual available only to professors email david.siegel@duke.edu subject line Solution Set Selected solutions available online to students

Understanding Correlation Matrices Alexandria Hadd, Joseph Lee Rodgers, 2020-12-06 Correlation matrices along with their unstandardized counterparts covariance matrices underlie the majority the statistical methods that researchers use today A correlation matrix is more than a matrix filled with correlation coefficients The value of one correlation in the matrix puts constraints on the values of the others and the multivariate implications of this statement is a major theme of the volume Alexandria Hadd and Joseph Lee Rodgers cover many features of correlations matrices including statistical hypothesis tests their role in factor analysis and structural equation modeling and graphical approaches They illustrate the discussion with a wide range of lively examples including correlations between intelligence measured at different ages through adolescence correlations between country characteristics such as public health expenditures health life expectancy and adult mortality correlations between well being and state level vital statistics correlations between the racial composition of cities and professional sports teams and correlations between childbearing intentions and childbearing outcomes over the reproductive life course This volume may be used effectively across a number of disciplines in both undergraduate and graduate statistics classrooms and also in the research laboratory

Cryptology Richard Klima, Richard E. Klima, Neil Sigmon, Neil P. Sigmon, 2018-12-07 Cryptology Classical and Modern Second Edition proficiently introduces readers to the fascinating field of cryptology The book covers classical methods including substitution transposition Playfair ADFGVX Alberti Vigenere re and Hill ciphers It also includes coverage of the Enigma machine Turing bombe and Navajo code Additionally the book presents modern methods like RSA ElGamal and stream ciphers as well as the Diffie Hellman key exchange and Advanced Encryption Standard When possible the book details methods for breaking both classical and modern methods The new edition expands upon the material from the first edition which was oriented for students in non technical fields At the same time the second edition supplements this material with new content that serves students in more technical fields as well Thus the second edition can be fully utilized by both technical and non technical students at all levels of study The authors include a wealth of material for a one semester cryptology course and research exercises that can be used for supplemental projects Hints and answers to selected exercises are found at the end of the book

Symbolic

Mathematics for Chemists Fred Senese, 2018-11-05 An essential guide to using Maxima a popular open source symbolic mathematics engine to solve problems build models analyze data and explore fundamental concepts Symbolic Mathematics for Chemists offers students of chemistry a guide to Maxima a popular open source symbolic mathematics engine that can be used to solve problems build models analyze data and explore fundamental chemistry concepts The author a noted expert in the field focuses on the analysis of experimental data obtained in a laboratory setting and the fitting of data and modeling experiments The text contains a wide variety of illustrative examples and applications in physical chemistry quantitative analysis and instrumental techniques Designed as a practical resource the book is organized around a series of worksheets that are provided in a companion website Each worksheet has clearly defined goals and learning objectives and a detailed abstract that provides motivation and context for the material This important resource Offers an text that shows how to use popular symbolic mathematics engines to solve problems Includes a series of worksheet that are prepared in Maxima Contains step by step instructions written in clear terms and includes illustrative examples to enhance critical thinking creative problem solving and the ability to connect concepts in chemistry Offers hints and case studies that help to master the basics while proficient users are offered more advanced avenues for exploration Written for advanced undergraduate and graduate students in chemistry and instructors looking to enhance their lecture or lab course with symbolic mathematics materials Symbolic Mathematics for Chemists A Guide for Maxima Users is an essential resource for solving and exploring quantitative problems in chemistry

Contaminant Hydrogeology C. W. Fetter, Thomas Boving, David Kreamer, 2017-10-24 Tremendous progress has been made in the field of remediation technologies since the second edition of Contaminant Hydrogeology was published two decades ago and its content is more important than ever Recognizing the extensive advancement and research taking place around the world the authors have embraced and worked from a larger global perspective Boving and Kreamer incorporate environmental innovation in studying and treating groundwater soil contamination and the transport of those contaminants while building on Fetter s original foundational work Thoroughly updated expanded and reorganized the new edition presents a wealth of new material including new discussions of emerging and potential contaminant sources and their characteristics like deep well injection fracking fluids and in situ leach mining New sections cover BET and Polanyi adsorption potential theory vapor transport theory the introduction of the Capillary and Bond Numbers the partitioning interwell tracer testing technique for investigating NAPL sites aerial photographic interpretation geophysics immunological surveys high resolution vertical sampling flexible liner systems groundwater tracers and much more Contaminant Hydrogeology is intended as a textbook in upper level courses in mass transport and contaminant hydrogeology and remains a valuable resource for professionals in both the public and private sectors

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