

Statistics Cheat Sheet

Mr. Roth, Mar 2004

1. Fundamentals

- a. Population – Everybody to be analysed
- Parameter - # summarizing Pop
- b. Sample – Subset of Pop we collect data on
- Statistics - # summarizing Sample
- c. Quantitative Variables – a number
- Discrete – countable (# cars in family)
- Continuous – Measurements – always # between
- d. Qualitative
- Nominal – just a name
- Ordinal – Order matters (low, mid, high)

Choosing a Sample

- a. Sample Frame – list of pop we choose sample from
- b. Biased – sampling differs from pop characteristics.
- c. Volunteer Sample – any of below three types may end up as volunteer if people choose to respond.

Sample Designs

- a. Judgement Samp: Choose what we think represents
 - Convenience Sample – easily accessed people
- b. Probability Samp: Elements selected by Prob
 - Simple random sample – every element = chance
 - Systematic sample – almost random but we choose by method
- c. Census – data on every everything in pop

Stratified Sampling

Divide pop into subpop based upon characteristics

- a. Proportional: in proportion to total pop
- b. Stratified Random: select random within substrata
- c. Cluster: Selection within representative clusters

Collect the Data

- a. Experiment: Control the environment
- b. Observation:

2. Single Variable Data - Distributions

- a. Graphing Categorical: Pie & bar chart
- b. Histogram (classes, count within each class)
- c. – shape, center, spread. Symmetric, skewed right, skewed left
- d. Stemplots

| | | | |
|---|--------|---|--------|
| 0 | 11222 | 0 | 112233 |
| 1 | 011333 | 0 | 56677 |
| 2 | etc | 1 | |

e. Mean: $\bar{x} = \sum x_i / n$

f. Median: M: If odd – center, if even – mean of 2



- g. Variance: $s^2 = \sum (x - \bar{x})^2 / (n - 1) = SS_x / (n - 1)$
- h. p75: standard deviation, $s = \sqrt{s^2}$
- i. $SS_x = \sum (x - \bar{x})^2 = \sum x^2 - (\sum x)^2 / n$
- j. Density curve – relative proportion within classes – area under curve = 1
- k. Normal Distribution: 68, 95, 99.7 % within 1, 2, 3 std deviations.
- l. p98: z-score $z = (x - \bar{x}) / s$ or $(x - \mu) / \sigma$
- m. Standard Normal: $N(0,1)$ when $N(\mu, \sigma)$

3. Bivariate - Scatterplots & Correlation

- a. Explanatory – independent variable
- b. Response – dependent variable
- c. Scatterplot: form, direction, strength, outliers
 - form is linear negative, ...
 - to add categorical use different color/symbol
- d. p147: Linear Correlation- direction & strength of linear relationship
- e. Pearson's Coeff: $(-1 \leq r \leq 1)$ 1 is perfectly linear + slope, -1 is perfectly linear - slope.

f. $r = \frac{1}{n-1} \cdot \sum \frac{(x - \bar{x})(y - \bar{y})}{s_x s_y} = \frac{SS_{xy}}{\sqrt{SS_x SS_y}}$

g. $r = z_x z_y / (n-1)$.

h. $SS_{xy} = \sum xy - \frac{\sum x \sum y}{n}$

4. Regression

- a. least squares – sum of squares of vertical error minimized
- b. p154: $y = b_0 + b_1 x$, or $\hat{y} = \alpha + \beta x$
- c. (same as $y = mx + b$)
- d. $b_1 = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sum (x - \bar{x})^2} = \frac{SS_{xy}}{SS_x} = r (s_y / s_x)$
- e. Then solving knowing lines thru centroid $((\bar{x}, \bar{y}))$: $\alpha = \bar{y} - b\bar{x}$
- f. $b_0 = \frac{\sum y - (b_1 \sum x)}{n}$
- g. r^2 is proportion of variation described by linear relationship
- h. residual = $y - \hat{y}$ = observed – predicted.

Statistics Cheat Sheet

Prabhu TL

Statistics Cheat Sheet:

Statistics Workbook For Dummies Deborah Rumsey, 2005-05-27 Presents an introduction to statistics providing information on analyzing and interpreting data knowing where to begin solving problems and more Provided by publisher

Hands-On Data Analysis with Pandas Stefanie Molin, 2019-07-26 Get to grips with pandas a versatile and high performance Python library for data manipulation analysis and discovery Key FeaturesPerform efficient data analysis and manipulation tasks using pandasApply pandas to different real world domains using step by step demonstrationsGet accustomed to using pandas as an effective data exploration toolBook Description Data analysis has become a necessary skill in a variety of positions where knowing how to work with data and extract insights can generate significant value Hands On Data Analysis with Pandas will show you how to analyze your data get started with machine learning and work effectively with Python libraries often used for data science such as pandas NumPy matplotlib seaborn and scikit learn Using real world datasets you will learn how to use the powerful pandas library to perform data wrangling to reshape clean and aggregate your data Then you will learn how to conduct exploratory data analysis by calculating summary statistics and visualizing the data to find patterns In the concluding chapters you will explore some applications of anomaly detection regression clustering and classification using scikit learn to make predictions based on past data By the end of this book you will be equipped with the skills you need to use pandas to ensure the veracity of your data visualize it for effective decision making and reliably reproduce analyses across multiple datasets What you will learnUnderstand how data analysts and scientists gather and analyze dataPerform data analysis and data wrangling in PythonCombine group and aggregate data from multiple sourcesCreate data visualizations with pandas matplotlib and seabornApply machine learning ML algorithms to identify patterns and make predictionsUse Python data science libraries to analyze real world datasetsUse pandas to solve common data representation and analysis problemsBuild Python scripts modules and packages for reusable analysis codeWho this book is for This book is for data analysts data science beginners and Python developers who want to explore each stage of data analysis and scientific computing using a wide range of datasets You will also find this book useful if you are a data scientist who is looking to implement pandas in machine learning Working knowledge of Python programming language will be beneficial

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Ajay Ohri,2017-11-03 The definitive guide for statisticians and data scientists who understand the advantages of becoming proficient in both R and Python The first book of its kind Python for R Users A Data Science Approach makes it easy for R programmers to code in Python and Python users to program in R Short on theory and long on actionable analytics it provides readers with a detailed comparative introduction and overview of both languages and features concise tutorials with command by command translations complete with sample code of R to Python and Python to R Following an introduction to both languages the author cuts to the chase with step by step coverage of the full range of pertinent programming features and functions including data input data inspection data quality data analysis and data visualization Statistical modeling machine learning and data mining including supervised and unsupervised data mining methods are treated in detail as are time series forecasting text mining and natural language processing Features a quick learning format with concise tutorials and actionable analytics Provides command by command translations of R to Python and vice versa Incorporates Python and R code throughout to make it easier for readers to compare and contrast features in both languages Offers numerous comparative examples and applications in both programming languages Designed for use for practitioners and students that know one language and want to learn the other Supplies slides useful for teaching and learning either software on a companion website Python for R Users A Data Science Approach is a valuable working resource for computer scientists and data scientists that know R and would like to learn Python or are familiar with Python and want to learn R It also functions as textbook for students of computer science and statistics A Ohri is the founder of Decisionstats com and currently works as a senior data scientist He has advised multiple startups in analytics off shoring analytics services and analytics education as well as using social media to enhance buzz for analytics products Mr Ohri s research interests include spreading open source analytics analyzing social media manipulation with mechanism design simpler interfaces for cloud computing investigating climate change and knowledge flows His other books include R for Business Analytics and R for Cloud Computing

Commonwealth Education Beth Kreling,Peter R.C. Williams,2022-12-29 Education once regarded as a key pillar of Commonwealth activity is increasingly inconspicuous on Commonwealth agendas Written to mark the sixtieth anniversary of

the first Commonwealth Education Conference in 1959 the chapters in this volume reflect on the past present and future of Commonwealth educational cooperation This book reviews some of the principal dimensions of education development in Commonwealth member states and the challenges they face including girls education student exchange the use of technology education challenges in small states and efforts to achieve the Sustainable Development Goals in and through education Across all its contributions this book examines the case for education being a continued priority area for Commonwealth collective engagement and considers where and how the Commonwealth might direct future efforts in education at a time of constrained resources This book is an insightful resource for scholars and researchers involved in Commonwealth studies and will be of particular interest to political scientists economists and educators This book originally appeared as a special issue of The Round Table The Commonwealth Journal of International Affairs *Statistics For Dummies* Deborah J.

Rumsey,2003-09-19 In the numbers explosion all around us in our modern day dealings the buzzword is data as in Do you have any data to support your claim The data supported the original hypothesis that and The data bear this out But the field of statistics is not just about data Statistics is the entire process involved in gathering evidence to answer questions about the world in cases where that evidence happens to be numerical data Statistics For Dummies is for everyone who wants to sort through and evaluate the incredible amount of statistical information that comes to them on a daily basis You know the stuff charts graphs tables as well as headlines that talk about the results of the latest poll survey experiment or other scientific study This book arms you with the ability to decipher and make important decisions about statistical results being ever aware of the ways in which people can mislead you with statistics Get the inside scoop on number crunching nuances plus insight into how you can Determine the odds Calculate a standard score Find the margin of error Recognize the impact of polls Establish criteria for a good survey Make informed decisions about experiments This down to earth reference is chock full of real examples from real sources that are relevant to your everyday life from the latest medical breakthroughs crime studies and population trends to surveys on Internet dating cell phone use and the worst cars of the millennium Statistics For Dummies departs from traditional statistics texts references supplement books and study guides in the following ways Practical and intuitive explanations of statistical concepts ideas techniques formulas and calculations Clear and concise step by step procedures that intuitively explain how to work through statistics problems Upfront and honest answers to your questions like What does this really mean and When and how I will ever use this Chances are Statistics For Dummies will be your No 1 resource for discovering how numerical data figures into your corner of the universe **Cheat Sheet for Stat** Samuel Warren Cochran,Joanne S. Holliman,1974 **Database** ,1994 **Bloomberg Markets** ,2010

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