Behavioral Social Choice Probabilistic Models Statistical Inference And Applications

#behavioral social choice #probabilistic models #statistical inference #collective decision making #applied social choice

Explore the critical domain of behavioral social choice, where probabilistic models and statistical inference are rigorously applied. This interdisciplinary field seeks to understand and predict how individuals and groups make collective decisions, offering valuable insights and practical applications across economics, political science, and various social sciences.

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Introduction
Descriptive statistics and inferential statistics
Definition of inference
Examples of populations and samples
Three ideas underlying inference
Example of political poll
Margin of error for 1000 people is about 3
Bayes theorem, the geometry of changing beliefs - Bayes theorem, the geometry of changing beliefs by 3Blue1Brown 4,012,335 views 4 years ago 15 minutes - You can read more about Kahneman and Tversky's work in Thinking Fast and Slow, or in one of my favorite books, The Undoing ...
Intro example
Generalizing as a formula
Making probability intuitive
Issues with the Steve example
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Introduction
Variables
Statistical Tests

The Ttest
Correlation coefficient
Statistical Tests: Choosing which statistical test to use - Statistical Tests: Choosing which statistical test to use by Dr Nic's Maths and Stats 1,668,673 views 12 years ago 9 minutes, 33 seconds - Seven different **statistical**, tests and a process by which you can decide which to use. See https://creativemaths.net/videos/ for all of ...
Introduction
Three questions
Data
Samples
Purpose
Teach me STATISTICS in half an hour! Seriously. - Teach me STATISTICS in half an hour! Seriously. by zedstatistics 2,562,548 views 5 years ago 42 minutes - THE CHALLENGE: "teach me **statistics**, in half an hour with no mathematical formula" The RESULT: an intuitive overview of ...
Introduction
Data Types
Distributions
Sampling and Estimation
Hypothesis testing
p-values
BONUS SECTION: p-hacking
1. Probability Models and Axioms - 1. Probability Models and Axioms by MIT OpenCourseWare 1,207,997 views 11 years ago 51 minutes - MIT 6.041 **Probabilistic**, Systems Analysis and Applied **Probability**,, Fall 2010 View the complete course: ...
Intro
Administrative Details
Mechanics
Sections
Style
Why Probability
Class Details
Goals
Sample Space
Example
Assigning probabilities
Intersection and Union
Are these axioms enough
Union of 3 sets
Union of finite sets
Weird sets
Discrete uniform law
An example
6 Logical reasoning questions to trick your brain - 6 Logical reasoning questions to trick your brain by Braintastic 3,200,871 views 3 years ago 2 minutes, 36 seconds - Braintastic is home to the most intriguing riddles, quizzes, brain teasers and facts & information related to science, history, and ...
The Most Common Cognitive Bias - The Most Common Cognitive Bias by Veritasium 15,388,485 views 10 years ago 4 minutes, 44 seconds - How do you investigate hypotheses? Do you seek to confirm your theory - looking for white swans? Or do you try to find black ...
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Chi Squared Test - Chi Squared Test by Piers Support 442,732 views 6 years ago 10 minutes, 45 seconds - This video describes the why, the what, the how, and the when of the chi squared test. Why would you use it, what does it show, ...
Hypothesis testing: step-by-step, p-value, t-test for difference of two means - Statistics Help - Hypothesis testing: step-by-step, p-value, t-test for difference of two means - Statistics Help by Dr Nic's Maths and Stats 898,609 views 12 years ago 7 minutes, 38 seconds - This entertaining video works step-by-step through a hypothesis test, using the difference of two means as an example.
Hypotheses

Significance Level
Sample
p-value
Decide
Statistics - A Full University Course on Data Science Basics - Statistics - A Full University Course on Data Science Basics by freeCodeCamp.org 2,792,271 views 4 years ago 8 hours, 15 minutes - Learn the essentials of **statistics**, in this complete course. This course introduces the various methods used to collect, organize, ...
What is statistics
Sampling
Experimental design
Randomization
Frequency histogram and distribution
Time series, bar and pie graphs
Frequency table and stem-and-leaf
Measures of central tendency
Measure of variation
Percentile and box-and-whisker plots
Scatter diagrams and linear correlation
Normal distribution and empirical rule
Z-score and probabilities
Sampling distributions and the central limit theorem
Day in My Life as a Quantum Computing Engineer! - Day in My Life as a Quantum Computing Engineer! by Anastasia Marchenkova 368,241 views 1 year ago 46 seconds – play Short - Every day is different so this is just ONE day! This was a no meeting day so I ended up being able to do a lot of heads down work.
A visual guide to Bayesian thinking - A visual guide to Bayesian thinking by Julia Galef 1,732,768 views 8 years ago 11 minutes, 25 seconds - I use pictures to illustrate the mechanics of "Bayes' rule," a mathematical theorem about how to update your beliefs as you ...
Introduction
Bayes Rule
Repairman vs Robber
Bob vs Alice
What if I were wrong
Introduction to Bayesian statistics, part 1: The basic concepts - Introduction to Bayesian statistics, part 1: The basic concepts by StataCorp LLC 476,121 views 8 years ago 9 minutes, 12 seconds - An introduction to the concepts of Bayesian analysis using Stata 14. We use a coin toss experiment to demonstrate the idea of ...
Sampling Distribution
Bayesian Approach
Uniform Distribution
Likelihood Function
Posterior Distribution
Highest Posterior Density Credible Interval
Probabilistic Topic Models and User Behavior - Probabilistic Topic Models and User Behavior by Microsoft Research 1,690 views 7 years ago 1 hour, 22 minutes - Probabilistic, topic **models**, provide a suite of tools for analyzing large document collections. Topic **modeling**, algorithms discover ...
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estimate the mean of a given distribution
focus on estimation problems
define maximum likelihood estimation in terms of pmfs
start looking at the mean squared error that your estimator gives
get rid of the measurement noise
calculate the mean squared error estimate corresponding to this estimator
construct a 95 % confidence interval
to calculate a 95 % confidence interval
constructing our 95 % confidence interval

construct a confidence interval
estimating a standard deviation
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Netflix Competition
Relation between the Field of Inference and the Field of Probability
Generalities
Classification of Inference Problems
Model the Quantity That Is Unknown
Bayes Rule
Example of an Estimation Problem with Discrete Data
Maximum a Posteriori Probability Estimate
Point Estimate
Conclusion
Issue Is that this Is a Formula That's Extremely Nice and Compact and Simple that You Can Write with Minimal Ink but behind It There Could Be Hidden a Huge Amount of Calculation So Doing any Sort of Calculations That Involve Multiple Random Variables Really Involves Calculating Multi-Dimensional Integrals and Multi-Dimensional Integrals Are Hard To Compute So Implementing Actually this Calculating Machine Here May Not Be Easy Might Be Complicated Computationally It's Also Complicated in Terms of Not Being Able To Derive Intuition about It So Perhaps You Might Want To Have a Simpler Version a Simpler Alternative to this Formula That's Easier To Work with and Easier To Calculate
L14.4 The Bayesian Inference Framework - L14.4 The Bayesian Inference Framework by MIT OpenCourseWare 50,564 views 5 years ago 9 minutes, 48 seconds - MIT RES.6-012 Introduction to **Probability**,, Spring 2018 View the complete course: https://ocw.mit.edu/RES-6-012S18 Instructor: ...
The Bayesian inference frames
The Bayesian inference framework
The output of Bayesian inference
Point estimates in Bayesian inference
Statistical Inference for Generative Models with Maximum Mean Discrepancy - Statistical Inference for Generative Models with Maximum Mean Discrepancy by UCL Centre for Artificial Intelligence 1,812 views 3 years ago 57 minutes - AI Centre Seminar Series (Recorded April 2020) Francois-Xavier Briol is a Lecturer in **Statistical**, Science at UCL, and a Group ...
Generative Models in the Sciences
Generative Models in Machine Learning & Computer Vision
Important Questions for Generative Models
Statistical Inference Without Likelihoods
Minimum Distance Estimation
The Method of Simulated Moments
Integral Probability Metrics
Maximum Mean Discrepancy Estimators
Importance of the Kernel
Example: Inference for SDEs with Corrupted Data
Consistency and Central Limit Theorems
Summary
Quantitative Data Analysis 101 Tutorial: Descriptive vs Inferential Statistics (With Examples) - Quantitative Data Analysis 101 Tutorial: Descriptive vs Inferential Statistics (With Examples) by Grad Coach 827,681 views 2 years ago 28 minutes - Learn all about quantitative data analysis in plain, easy-to-understand lingo. We explain what quantitative data analysis is, when ...
Introduction
Quantitative Data Analysis 101
What exactly is quantitative data analysis
What is quantitative data analysis used for
The two branches of quantitative data analysis
Descriptive Statistics 101
Mean (average)
Median

Mode
Standard deviation
Skewness
Example of descriptives
Inferential Statistics 101
T-tests
ANOVA
Correlation analysis
Regression analysis
Example of inferential statistics
How to choose the right quantitative analysis methods
Recap
What is Time Series Analysis? - What is Time Series Analysis? by IBM Technology 119,823 views 11 months ago 7 minutes, 29 seconds - What is a "time series" to begin with, and then what kind of analytics can you perform on it - and what use would the results be to ...
Discrete Choice Analysis: Causal Inference Bootcamp - Discrete Choice Analysis: Causal Inference Bootcamp by Mod•U: Powerful Concepts in Social Science 11,274 views 8 years ago 3 minutes, 56 seconds - Here we introduce discrete **choice**, analysis. This is a technique for **modeling**, how people choose among a finite set of **options**,, like ...
Basics of Causal Behavioral Modeling - Basics of Causal Behavioral Modeling by Data Science Dojo 883 views Streamed 2 years ago 50 minutes - Learn the basics of **behavioral modeling**,, online search **behaviors**,, and a neural network representation of discrete **models**,.
Introduction
Introduction to discrete choice model
Where we can use it?
Key ideas
Static discrete choice model
Types of heterogeneity
Market simulation
Aggregate sales data
Consumer sequential search model
Dynamic discrete choice model
Neural network representation of discrete model
QnA
LESS is More: Rethinking Probabilistic Models of Human Behavior - LESS is More: Rethinking Probabilistic Models of Human Behavior by ACM SIGCHI 915 views 3 years ago 10 minutes - LESS is More: Rethinking **Probabilistic Models**, of Human **Behavior**, Andreea Bobu, Dexter R. R. Scobee, Jaime F. Fisac, ...
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The Bell Curve (Normal/Gaussian Distribution) Explained in One Minute: From Definition to Examples - The Bell Curve (Normal/Gaussian Distribution) Explained in One Minute: From Definition to Examples by One Minute Economics 132,090 views 5 years ago 1 minute, 4 seconds - If we measure people's height and display the results graphically, we'll notice that in most cases, we'll end up with something that ...
Tutorial 22-Univariate, Bivariate and Multivariate Analysis- Part1 (EDA)-Data Science - Tutorial 22-Univariate, Bivariate and Multivariate Analysis- Part1 (EDA)-Data Science by Krish Naik 358,371 views 4 years ago 13 minutes, 11 seconds - Looking for the best course in Datascience Visit appliedaicourse.com Connect with me here: Twitter: ...
Statistics For Data Science | Data Science Tutorial | Simplilearn - Statistics For Data Science | Data Science Tutorial | Simplilearn by Simplilearn 260,902 views 6 years ago 20 minutes - Statistics, is a branch of applied mathematics, that is the study and manipulation of data, including ways to gather, review, analyze, ...
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