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Jamovi for Data Analysis

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Product Description

Jamovi for Data Analysis In today's data-driven world, the ability to analyze information accurately is an essential skill across education, research, and industry. However, many traditional statistical tools are either prohibitively expensive or too complex for beginners to master. Jamovi for Data Analysis introduces readers to a powerful, free, and open- source alternative built on the R programming language. By providing a user-friendly point-and-click interface, Jamovi allows users to focus on understanding their data rather than struggling with complex coding or intimidating software environments. This book is specifically designed to build confidence in statistical analysis, guiding readers from the initial installation and interface navigation through to sophisticated data handling and hypothesis testing. The content is presented in a clear, step-by-step manner, enriched with examples that reflect real-world scenarios. Whether you are a student beginning your journey in statistics, a teacher looking for modern pedagogical tools, or a researcher needing a reliable and transparent platform for analysis, this book serves as an indispensable companion. It bridges the gap between theoretical concepts and practical application, making data exploration, visualization, and advanced modeling accessible to all. **Salient Features**

- **Comprehensive Tool Introduction:** Learn to navigate Jamovi's modular architecture, including its intuitive Data View, Variable Panel, and Analyses Panel for seamless statistical workflows.
- **Structured Learning Path:** Follow a pedagogical journey from basic data types and measures of central tendency to complex regression models and ANOVA.
- **Practical Implementation Focus:** Master data entry and cleaning by importing various formats like Excel, CSV, and SPSS, or by manually defining variables and types.
- **Visual Data Exploration:** Utilize built-in visualization tools to generate professional histograms, box plots, scatter plots, and bar charts that reveal underlying data patterns.
- **Parametric & Non-Parametric Testing:** Conduct a wide range of essential tests, including t-tests, Chi-square, and Wilcoxon signed-rank tests, with guidance on choosing the right method.
- **Advanced Modeling Techniques:** Explore sophisticated analytical methods such as simple and multiple linear regression, logistic regression, and structural equation modeling (SEM).
- **Real-Time Collaborative Reporting:** Benefit from Jamovi's unique "live

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Author

Jeeva Jose Dr. Jeeva Jose completed Ph. D. in Computer Science from Mahatma Gandhi University, Kerala, India and is a faculty member at BPC College, Kerala. Her passion is teaching and areas of interests include world wide web, Data Mining and Cyber laws. She has been in higher education for the last 15 years and has completed three research projects funded by UGC and KSCSTE. She has published more than twenty research papers in various refereed journals and conference proceedings. She has edited three books and has given many invited talks in various conferences. She is a recipient of ACM-W Scholarship provided by Association for Computing Machinery, New York. **Vijo Mathew**

