



The Manga Guide to Regression Analysis

By Shin Takahashi

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Like a lot of people, Miu has had trouble learning regression analysis. But with new motivation--in the form of a handsome but shy customer--and the help of her brilliant cafe coworker Risa, she's determined to master it.

Follow along with Miu and Risa in *The Manga Guide to Regression Analysis* as they calculate the effect of temperature on iced tea orders, predict bakery revenues, and work out the probability of cake sales with simple, multiple, and logistic regression analysis. You'll get a refresher in basic concepts like matrix equations, inverse functions, logarithms, and differentiation before diving into the hard stuff. Learn how to:

- Calculate the regression equation
- Check the accuracy of your equation with the correlation coefficient
- Perform hypothesis tests and analysis of variance, and calculate confidence intervals
- Make predictions using odds ratios and prediction intervals
- Verify the validity of your analysis with diagnostic checks
- Perform chi-squared tests and F-tests to check the goodness of fit

Whether you're learning regression analysis for the first time or have just never managed to get your head around it, *The Manga Guide to Regression Analysis* makes mastering this tricky technique straightforward and fun.

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Editorial Review

About the Author

Shin Takahashi attended Kyushu University, where he graduated with a master's degree in information technology. Having previously worked both as a data analyst and an instructor, he is now an author specializing in technical books. He is the author of *The Manga Guide to Statistics* and *The Manga Guide to Linear Algebra* (No Starch Press).

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