

Everyday examples of logistic regression

So far, you have learned about two regression models: linear and logistic regression. **Regression models** are a group of statistical techniques that use existing data to estimate the relationships between a single dependent variable and one or more independent variables. Before exploring each model in depth, let's examine how regression can help you answer questions you encounter every day. Doing so will help you become more comfortable applying your knowledge as a data professional. For this discussion prompt, consider the following:

What are some relationships you observe at a store that can be modeled using linear regression? For example, sales of toothpaste and toothbrushes may be linearly related.

What about logistic regression? What outcomes have you observed that could be modeled using this model? For example, the length of a volunteer application could be related to the odds that someone volunteers for an organization. The number of pages the volunteer application has might be related to the chances of that person actually volunteering.