Data Science Communication

Chelsea Parlett-Pelleriti

Is this Clear?

Is this Simple?

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Communication tip: When you're writing for an audience of varying experience levels, explain concepts using language that to experts doesn't feel like an explanation

Not enough detail for beginners:

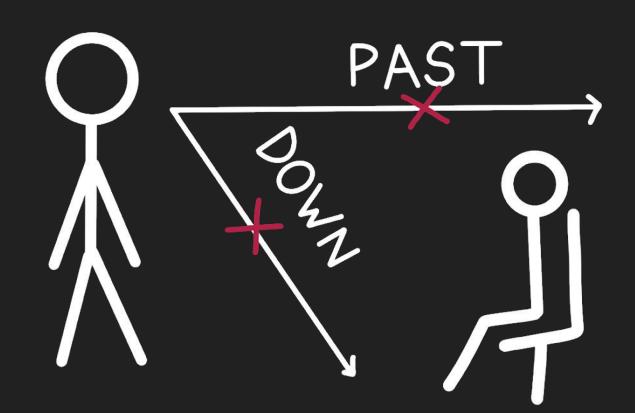
We used logistic regression.

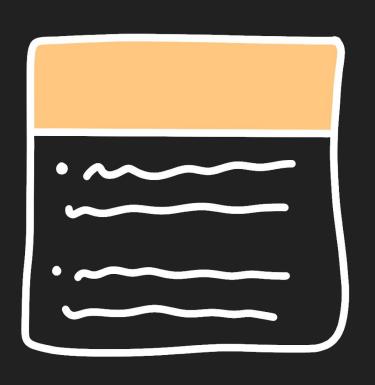
Too didactic for experts:

We used logistic regression. Logistic regression is a model suited for predicting a binary ("yes" or "no") outcome.

Readable for everyone:

Since our outcome is binary ("yes" or "no"), we used logistic regression.



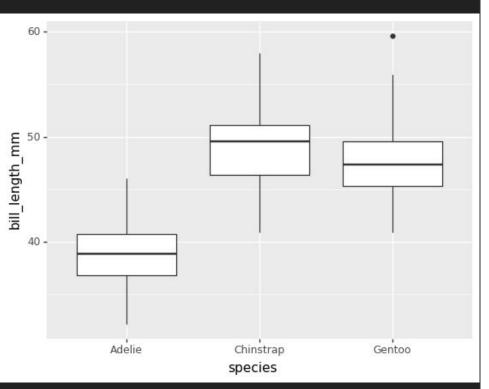


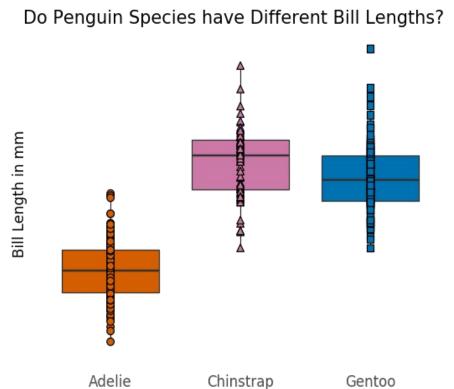


What's a time you felt like someone didn't have empathy when they explained something to you? How did that make you feel?

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LINEAR:
$$(\hat{y}_i - y_i)^2$$

$$LOGISTIC: \left(-\log(\hat{p}_i) | 4 | y = 1\right)$$

$$\left(-\log(1 - \hat{p}_i) | 4 | y = 0\right)$$

$$(\hat{p}_i)$$

What's one thing that you've noticed someone (a teacher, someone on social media...) do to make their message clear?

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xkcd.com/simplewriter/

Simplify

<u>Positive Correlation</u>: when two things move in the same direction in a very close way.

Loss Function: a number that tells you if something is doing a good job, we want this number to be as small as possible. Small means you are doing a good job. Big means you are doing a bad job.

<u>Homoscedasticity</u>: Things will be spread out a bit. But we want them to be spread out in the same way, no matter where you look.

<u>Bias</u>: When you're wrong in the same way over and over.

Regression	Approximate Methods	Vectorization
Regularization		Convergence
Bootstrapping	Cohesion and Separation	Newton's Method
Gradient	Convolution	Recursion
P-value	Median	Statistical Power
Posterior	Neural Network	Decision Tree
Confidence Interval	Standard Deviation	Effect Size
A/B test	Variance	Data Frame

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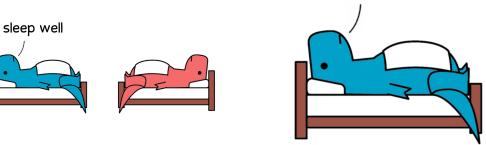


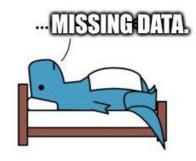


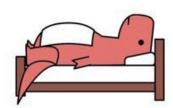




for tomorrow we rise to once again do battle with our greatest enemy...







Me explaining why standardizing your variables is important:





Decided to put coin in a bucket everytime (CORATICATIONSYNTAX)

AND INTERIOR STATES AN





107: Memes, TikTok, and science communication (with Chelsea Parlett-Pelleriti)

Episode 107 · May 4th, 2020 · 1 hr 5 mins

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