Errata

The page numbers indicated between parentheses correspond to the printed version

Chapter 2

page 50 (51):

- As we can see, the result looks somewhat similar for lossf_a is $\hat{\theta} = 0.32$ page 53 (54):
 - As I am not a [not a] ethologist [...]

page 59 (60):

- second paragraph: "I(t')s the theoretical distribution [...]"
- last paragraph, third sentence: replace "for $\nu > 2$ " with "for $\nu <= 2$ " page 63 (64):
- second paragraph: "how a few of the predictive samples look[s] very flat." page 64 (65):
- first paragraph: "to the value[s] estimated" page 65 (66):
- second paragraph: "help their kids grow[n] stronger" page 66 (67):
 - the pooled standard deviation should have a plus (+) instead of a minus (-) sign between the group standard deviations. That is:

$$\frac{\mu_2 - \mu_1}{\sqrt{\frac{\sigma_2^2 + \sigma_1^2}{2}}}$$

page 73 (74):

• first paragraph: "i(t')s also possible"

page 74 (75):

- first bullet point: "We have (have) defined two [...]" page 83 (84):
 - first paragraph: "And that is, ladies, gentlem[a] (e) n"

Chapter 3

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page 95 (97):
   • first paragraph: "this constrain(t) is relaxed"
page 100 (102):
   • second to last paragraph: "interval [-1, 1][. It does not matter about](,
     regardless of) the scale of the data."
   • last paragraph: "how much y change(s)"
page 109 (111):
   • code block, 4th and 3rd line from bottom: f-strings missing the "f".
page 116 (118):
   • first paragraph: "with an[d] increasing amount"
page 119 (121):
   • second paragraph: "They are just (k)nobs"
page 120 (122):
   • first paragraph: "Well that's the subject of Chapter [6] (5), Model Com-
     parison"
page 121 (123):
Here, \beta is a vector of coefficients of length m, that is, the number of (in)dependent
variables.
page 128 (130):
   • first paragraph: "Using a fo(rest plot)"
page 133 (135):
   • Figure 3.26 have been updated
page 135 (137):
   • In all of the examples we have seen so far, the (in)dependent variables
     contribute additively to the predicted variable.
page 136 (138):
   • For those cases, we may want to consider the variance as a (linear) function
     of the (in)dependent variable.
Page 141 (143):
   • Exercise 6: "ArviZ functions like plot_trace and plot_pair"
Page 142 (144):
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- Exercise 14: This time (a)dd uncertainy to the linear plot
- Exercise 14: Exercise should reference Figure 3.17, not Figure 3.18

Chapter 4

page 154 (156):

• second paragraph: "we take advantage[s]"

page 160 (162):

• third paragraph: "and 50 virgini[n] (c) as"

page 163 (165):

• bottom paragraph: "Chapter 5, [Modeling with Linear Regression] (Model Comparison)"

page 167 (169):

• last line: "x! is the factorial of x, that is, x! = $x \times (x-1) \times (x-2) \times \cdots \times 2 \times 1$.

page 170 (172):

• equation (4.25):

$$p(y_j = k_i) = \psi \frac{\mu^{x_i} e^{-\mu}}{x_i!}$$

page 175 (177):

• "Extensions such (as) the ones we [we] saw"

Chapter 5

page 185 (187):

• first paragraph: "shocked or even disappoint[ing] (ed) by"

Page 216 (218):

• "KL diverge(nce) is useful because it is a way of measuring how close to distributins are

page 219 (221):

• Bayes factors are problematic to use, given that they are very sensitive[ly] to prior specification,

Chapter 6

page 230 (232):

page 259 (262):

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• last paragraph: "does not necessary depend(s) on data"
page 237 (239):
   • third paragraph: "what we do to turn logistic[s] regression into a"
page 238 (240):
   • first paragraph: "someone already decide(d) the name"
page 239 (241):
   • third paragraph: "br[ake] (eak) the stick"
page 241 (243):
   • first paragraph: "represent(s) how confiden[ce] (t) we are"
page 245 (247):
   • first paragraph: "This model also show(s) a less smooth"
page 247 (249):
   • last paragraph: "the latent variable before doing inference, wi[n]ch may
     lead to"
page 248 (250):
   • second paragraph:
        - "thus i[n] (t) may be convenient"
        - "th[is] (ese) models can lead"
   • last paragraph: "can be interpreted as continuous mixture model(s)"
Chapter 7
page 253 (255):
   • last paragraph:
        - "we express the first [one] function"
        - "for the second [one] function"
page 255 (258):
   • equation 7.4: second term on the RHS should be: (x_2 - x_2')^2
   • third paragraph: "covariance matrix looks [appears] for different inputs"
   • info box: "Thus, the close[st] (r) two points are on the x axis[;] (,) the
     mo[st] (re) similar we expect their values to be on the y axis"
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• last paragraph: "and [this is not the exception with] Gaussian processes (are no exception)"

page 261 (264):

- second paragraph: "x is the independent variable[s], and y is the dependent variable[s]"
- third paragraph: "module, [Often,]for length-scale parameters, priors avoiding zero (often) work better"

page 267 (270):

• first paragraph: "their geographical similar[ly] (ity)"

page 271 (274):

- second paragraph: "counteracting the effect of it('s)[over] close neighbors" page 279 (282):
- last paragraph: "to the time a disaster[s] happen[s] (ed)" page 280 (283):
 - first paragraph: "Let's load [at] the data"

page 285 (288):

• last paragraph: "We may imag[e] (ine) that"

Chapter 8

page 295 (298):

• second paragraph: "[Also is] (It's also) one of the building block(s)"

page 303 (306):

• third paragraph: "The rule to decide whether to accept or reject is known as the Metropolis criteri[a] (on)"

page 318 (321):

• second paragraph: "samples from the noncentered model ha[s] (ve) almost no autocorrelation"

page 319 (322):

- $\bullet\,$ second paragraph: " we will need a [more] (larger) effective sample size" page 327 (331):
 - first paragraph:
 - "One book that is generally refere[e]d (to) as"
 - "You may also want to check (out) the book"