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Please provide numbers in the requested precision within each question. The use of different precision is evaluated as wrong!

Load the dataset `UCBAdmissions` from the package `datasets` into your R workspace.

⋮ (a) Use `?UCBAdmissions` to get information about the dataset. Create a flat contingency table and add the marginal sums. What are the mean values for the row and the column marginals? 2 of 2 points

mean of row marginals (requested precision: 1 digit)

1 of 1 point

1131.5 ✓

mean of column marginals (requested precision: 1 digit)

1 of 1 point

754.3 ✓

⋮ (b) Transform the flat contingency table from (a) into a data frame. Fit the saturated model that predicts the count variable `Freq`. What is the value for AIC of the saturated model? 1 of 1 point

AIC (requested precision: 1 digit)

1 of 1 point

207.1 ✓

⋮ (c) Starting with the saturated model of (b), use a backward selection algorithm to select the best nested model based on AIC. What is the value of the null deviance for this selected model? 1 of 1 point

null deviance (requested precision: whole numbers)

1 of 1 point

2650 ✓

⋮ (d) Fit the model of no three way interactions that predicts the count variable `Freq`. What is the value for λ_i^X for `X` given by Gender and `i` chosen to be the category "Female"? 0 of 1 point

λ_i^X (requested precision: 4 digits)

1 point

0.6819 ✗ -1.9986

⋮ (e) What is the mean value for the pearsonian residuals for the model of no three way interactions of (d)? 0 of 1 point

mean value (requested precision: 3 digits)

1 point

-0.035 ✗ -0.014

⋮ (f) What is the mean value for the deviance residuals for the model of no three way interactions of (d)? 0 of 1 point

mean value (requested precision: 3 digits)

1 point

-1.205 ✗ -0.033

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☐ Create an inspection request?



Please note that this document will become a part of your exam file!

- Be polite and friendly.
- Describe your rationale as precisely as possible.

Dynexite, 30.07.2021

Request for correction of this item

Dear sir or madam, ...

(This document is valid without signature)

Changes were saved

 OVERVIEW

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 LEAVE INSPECTION