

Stat 320. Lab-assignment 4

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Problem 1:

Exercise 1, page 148

Problem 2:

We are revisiting the problem 34, called Fanfare, Page 125.

Let's look at it and answer the questions raised there

After that let's fit a multivariate regression model using sales as the dependent variable and ADEX, MTGRATE and HSSTARTS as the explanatory variables.

Answer the following questions:

1. What proportion of the variation in sales has been explained by the model.
2. Provide the interpretation of the coefficient of regression
3. Summarize the three variations and calculate the typical error.
4. Check if one of the residual conditions is violated.
5. Test if each explanatory variable is necessary for the model. Your conclusion
6. If we remove the variable AD EX, calculate the proportion of variation in Sales that was explained by the variable AD EX.
7. Check if the model is adequate, which means provide the overall test about the model.
8. Conclusion

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