



## PROJECT

## Analyze A/B Test Results

A part of the Data Analyst Nanodegree Program

## PROJECT REVIEW

## NOTES

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## Requires Changes

## 1 SPECIFICATION REQUIRES CHANGES

Hi,

Q: Thank you for your time reviewing my project submission. When I was completing the project, I found that interpreting the hypothesis testing result and the logistic regression model is kind of confusing. I have prior knowledge of statistics, but I find that there are better ways to interpret those results if I get to understand the knowledge deeper. So I will be deeply appreciated that if you can suggest some external resources for understanding the hypothesis test in logistics regression model! I would love to learn more things! Have a wonderful day!

A: I find this link very useful, at least to start with, <http://www.r-tutor.com/elementary-statistics/logistic-regression/significance-test-logistic-regression>

## Code Quality

All code cells can be run without error.

Docstrings, comments, and variable names enable readability of the code.

The code is well formatted and appropriately commented. That make it easy to follow the analysis steps and identify a specific functional operation.

## Statistical Analyses

All results from different analyses are correctly interpreted.

You are correct, we can observe a difference between the two categories but we need to perform a statistical test to appreciate if the difference is significant. In this report, you implemented 3 different statistical tests to appreciate if the difference is significant.

[Simulation](#), [Z-test](#), [Logistic regression](#)

The null and the alternative hypothesis are appropriate.

Considering the results of the statistical test (p-value) and the suggested p-critical. Since  $p\text{-value} > p\text{-critical}$ , we can't reject the null.

<http://www.itl.nist.gov/div898/handbook/prc/section1/prc131.htm>

For all numeric values, you should provide the correct results of the analysis.

For the z-test, since the alternative hypothesis is directional it is important to use a one-tailed test, you can do that simply by providing the correct value for the "alternative" parameter in the `"proportions_ztest"` function. Keep in mind that the result from the z-test should be similar to the simulation.

Conclusions should include not only statistical reasoning, but also practical reasoning for the situation.

You are correct the z-test and the simulation was implemented as a one-tailed test while the regression solves a two-tailed problem.

 RESUBMIT

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