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# Analyze A/B Test Results

**REVIEW** 

**HISTORY** 

#### **Meets Specifications**

importing the statsmodels.api in my python script generated the following warning: "miniconda2/lib/python2.7/site-packages/statsmodels/compat/pandas.py|;:56: FutureWarning: The pandas.core.datetools module is deprecated and will be removed in a future version. Please use the pandas.tseries module instead.

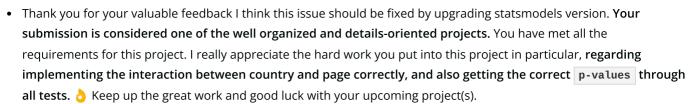
from pandas.core import datetools"

As per https://github.com/statsmodels/statsmodels/issues the related issue tickets were cited in the notebook for reference.

Hi Udacious,

## Congratulations! You nailed it this time 🤲 🧩





- Further readings to ensure covering the topic:
  - A/B Testing Guide
  - The Complete Guide To A/B Testing & Split Testing

Stay safe, keep learning, and stay Udacious 🔱



#### **Code Quality**

All code cells can be run without error.

**/** 

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

## Statistical Analyses

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All results from different analyses are correctly interpreted.

- In "Part II A/B Test", student should correctly interpret the test statistic and p-value.
- In "Part III A regression approach", student should correctly analyze the interaction effects on all of p-value and statistical significance to predict conversions.

All statistical numeric values are calculated correctly.

Tip: Students can optionally attempt the classroom quizzes to ensure they are calculating the right value in many

Well done! You searched and solved summary's problem by using summary2(). This is considered a problem solving technique. Keep it up.

• In addition, in part III: 1(h), you got the interaction between page and country correctly, however many learners tend to ignore it.

• [Suggestion] In part II: 2(m), good job! Kindly just note it's recommended to use alternative='larger' in this ztest since this is a one right tailed test, and also since the alternative hypothesis assumes that pnew > pold, but you will need to swap the order of parameters, as a result you should get a negative z-score = -1.3 which is consistent with the negative actual difference ( -.0015)

sm.stats.proportions\_ztest([convert\_new, convert\_old],[n\_new, n\_old],alternativ
e='larger')

Further Reading

The Documentation of proportion.proportions\_ztest()

**/** 

Conclusions should include both - statistical reasoning and practical reasoning for the situation.

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