

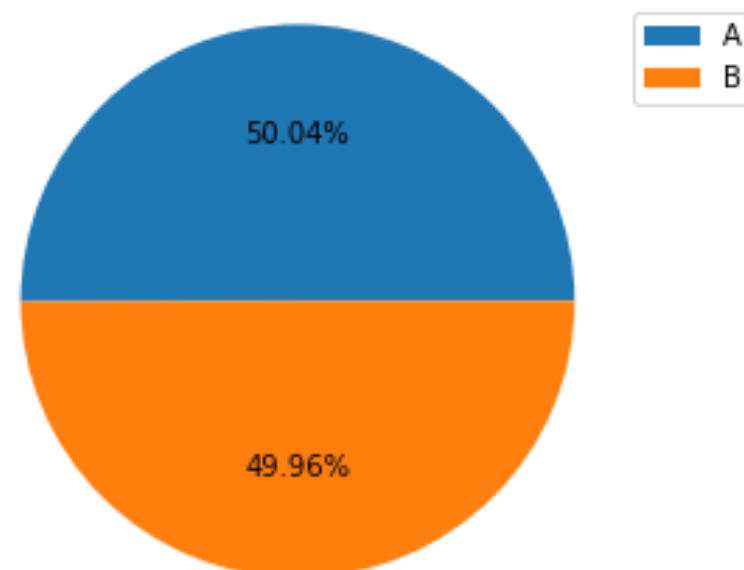


MuscleHub

"To test or not to test, that is the question"

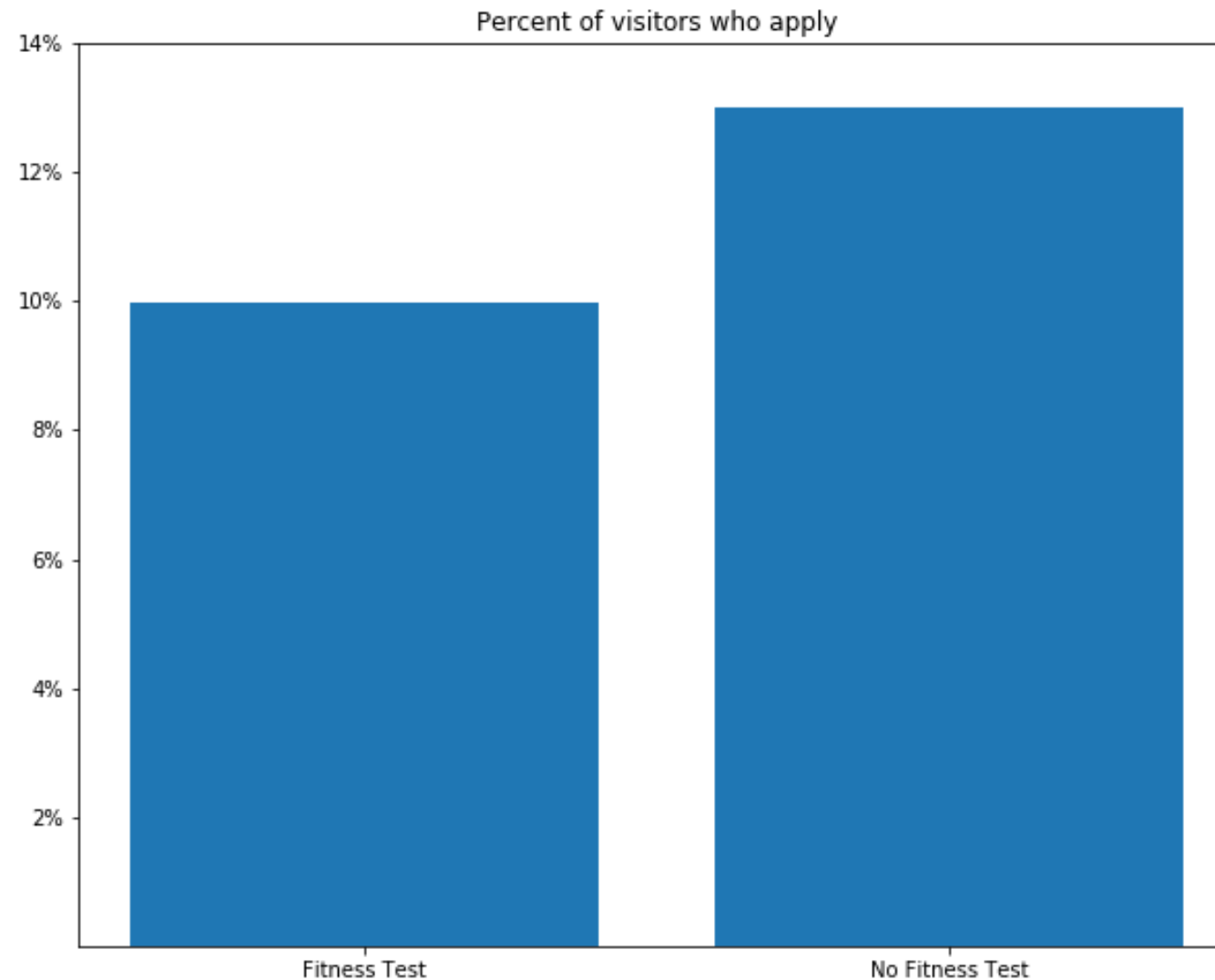
A/B Test

- MuscleHub wants to see if the fitness test has any effect on visitors eventually purchasing a membership
- Group A: took a fitness test with a personal trainer
- Group B: did not take a fitness test
- Visitors were split about evenly into the two test groups

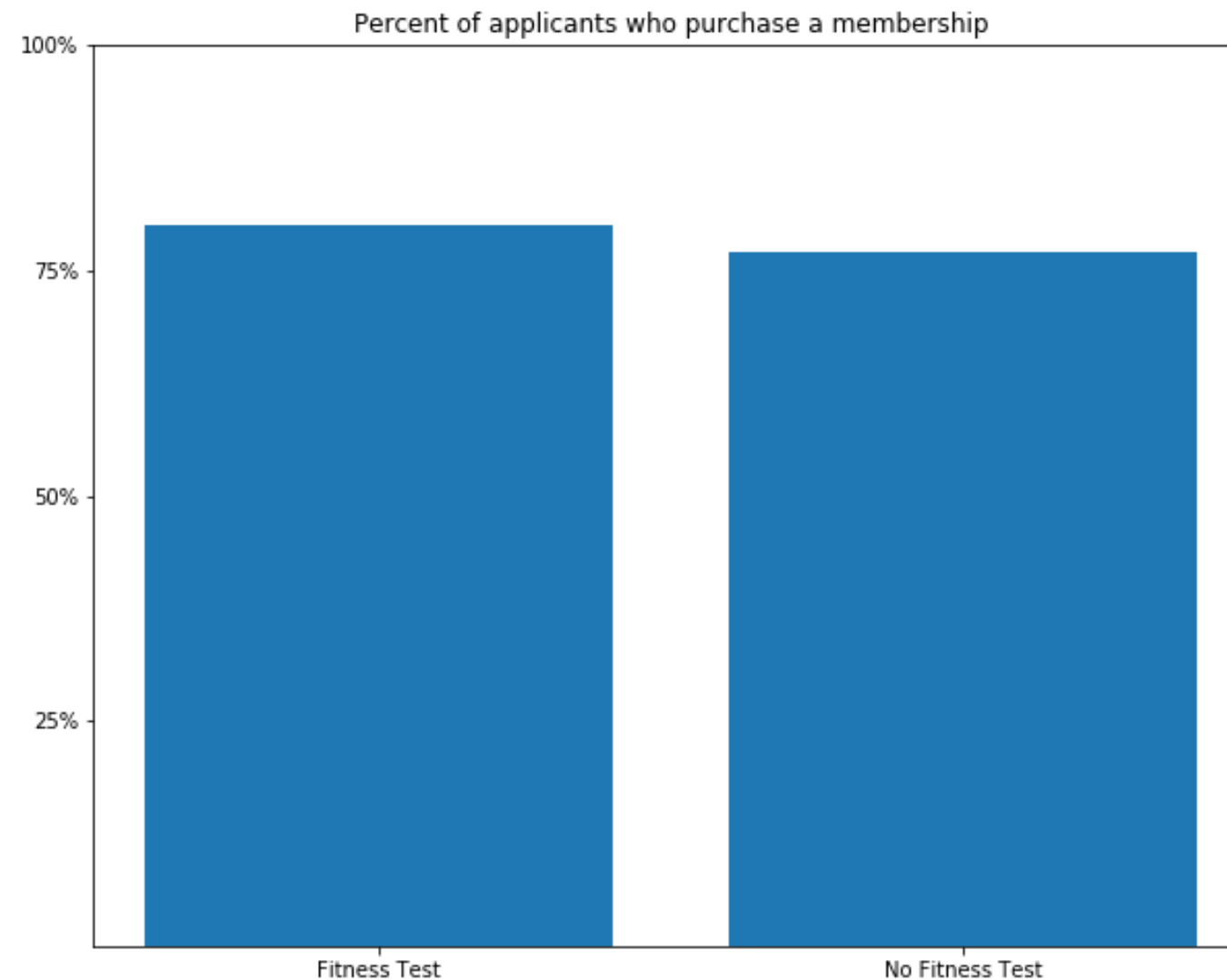


Dataset Summary

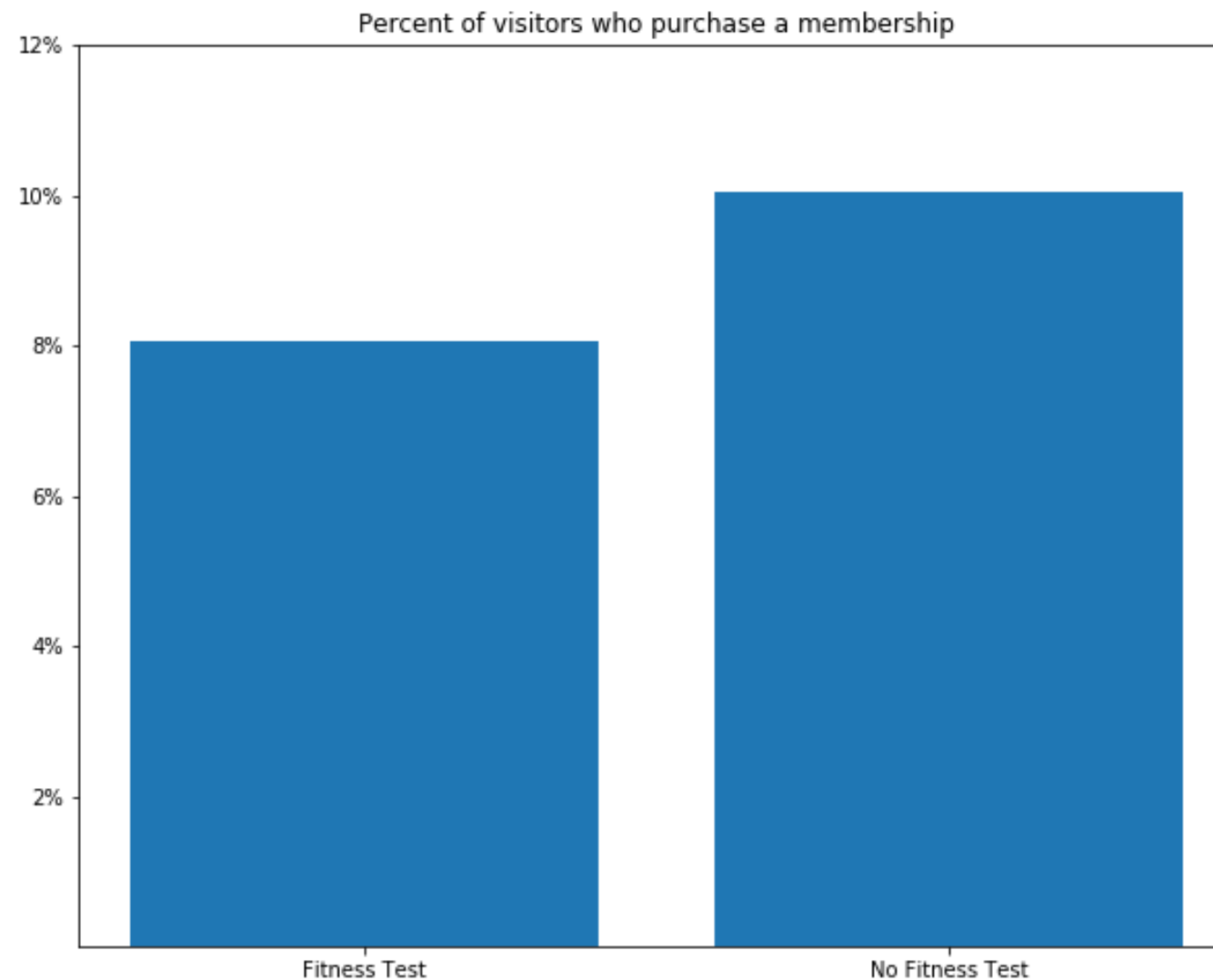
- ~3% more visitors filled out an application when there wasn't a fitness test



- From those applications, more people from Group A who took the fitness test bought a gym membership



- Factoring in all the visitors to MuscleHub, a greater percentage of those who didn't take a fitness test bought a gym membership



Hypothesis Test

- `chi2_contingency` from `scipy.stats` was used for all three datasets because:
 1. we have two categories (fitness test vs no fitness test)
 2. we want to compare the two groups and determine if the difference is significant ($p < 0.05$)
- H_0 = the fitness test has no effect

Test Results

- Percent of visitors who apply:

P-value = 0.00096 (**Significant difference!**)

- Percent of applicants who purchased a membership:

P-value = 0.43259 (No significant difference)

- Percent of visitors who purchased a membership:

P-value = 0.01719 (**Significant difference!**)

Interviews Summary

- One interviewee enjoyed how MuscleHub made them feel welcome
- LiftCity by comparison is more intense

Recommendation

- Based on the hypothesis testing it is better to get rid of the fitness test
- More visitors end up filling out an application or purchasing a membership when there weren't any tests
- With the removal of the fitness test, shift focus to making visitors feel welcome at the gym