A/B Testing

MuscleHub Fitness Test

MuscleHub Fitness Test A/B Test Overview

- The goal is to identify whether having customers take a fitness test prior to the application process impacts the customer conversion rate.
- Customers were divided into two groups:
 - Group A Customers given a fitness test prior to applying
 - Group B Customers moved straight to the application process
- We explored three KPIs to find an answer
 - Applications completed out of Visitors by group
 - Memberships converted out of Applicants by group
 - Memberships converted out of Visitors by group



Summary



Visitor, fitness test, application and purchase data records were joined on email and first/last name, creating a list of 5,000 sampled customers.



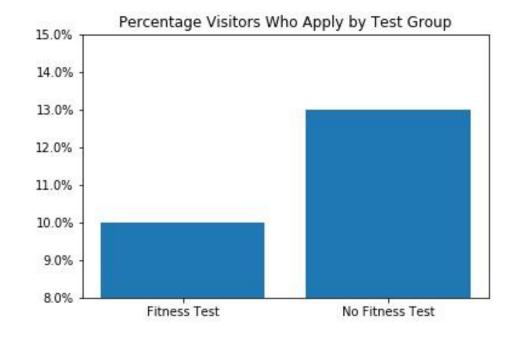
Each record on the joined table details the customer journey, with 2,504 in Group A and 2,500 in Group B.



Because each record is grouped into multiple categories, the Chi Squared test was chosen to determine statistical significance of the results.

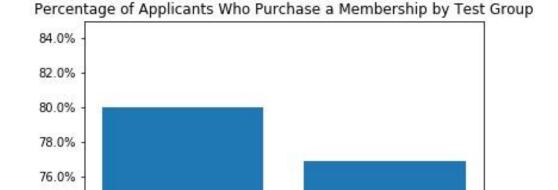
Hypothesis Test Results

- Applications filled out of visitors by group
 - 9.94 % of Group A Visitors filled out an application
 - 13% of Group B Visitors filled out an application
 - With a P-Value of 0.0009647827600722304, the results are significant and the null hypothesis is rejected.



Hypothesis Test Results Cont.

- Memberships converted out of Applicants by group
 - 80 % of Group A Applicants purchased a membership
 - 76.92% of Group B Applicants purchased a membership
 - With a P-Value of 0.43258646051083327, the results are insignificant we cannot reject the null hypothesis.



No Fitness Test

74.0%

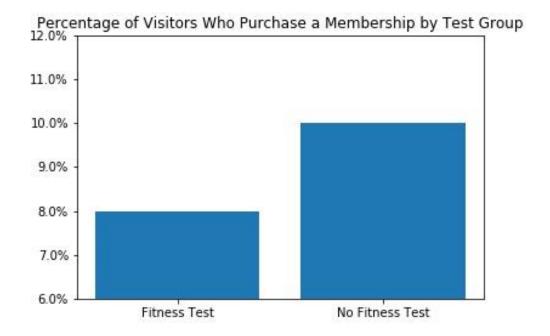
72.0%

70.0%

Fitness Test

Hypothesis Test Results Cont.

- Memberships converted out of Visitors by group
 - 7.99 % of Group A Visitors purchased a membership
 - 10% of Group B Visitors purchased a membership
 - With a P-Value of 0.014724114645783203, the results are significant and the null hypothesis is rejected.



Reviews

Of the reviews received, those that were given the fitness test mostly reacted negatively, while those that were not given a fitness test reacted positively to the lack of pressure.



Recommendation

- Make the Fitness Test optional.
 - While some customers reacted positively to the fitness test, they do not account for the majority of the customer base
 - Allow your customers to make their decision about taking the test to remove the pressure and intensity they feel when taking it.

