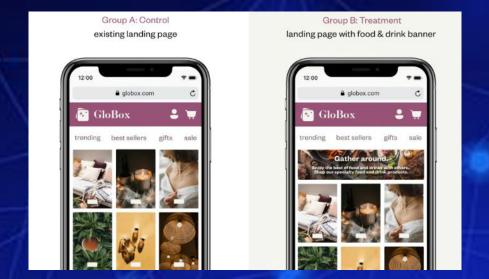
A/B Testing & Analysis Globox

Test Date: Jan 25th 2023 - Feb 6th 2023

Objective of the A/B Testing

 Evaluate the impact of implementing a Feature Banner at the top of the GloBox landing page.



Hypothesis Test1

Metric evaluated – Conversion rate

Null Hypothesis (Ho): There is No requirement to improve the existing homepage.

 Alternative Hypothesis (Ha): There is requirement to improve the existing homepage with food and drinks bar.

Statistical Results:

Conversion Rate - Group A:	3.92%
Conversion Rate - Group B:	4.63%
Calculated p-value:	0.0001
Confidence Level:	95%
Confidence interval	0.0035 to 0.0107

Results Overview:

• P-value(0.0001) < significance level, α (0.05) - Reject the null hypothesis in favour of the alternative hypothesis.

• The 95% confidence interval is between 0.0035 and 0.0107.

Doesn't include 0, proves there is difference in conversion rates

Conclusion – Test1:

Metric evaluated – Conversion rate

The findings favours the requirement to improve the existing homepage with food and drinks bar.

Hypothesis Test2: T-Test

Metric evaluated – Average amount spend

• Null Hypothesis (H0): There is no difference in the average amount spent per user between the two groups ($\mu A = \mu B$).

• Alternative Hypothesis (H1): There is a difference in the average amount spent per user between the two groups ($\mu A \neq \mu B$).

Test2 - Statistical Results:

Average Amount Spent - Group A:	\$3.375
Average Amount Spent - Group B:	\$3.391
Calculated p-value:	0.946
Confidence Level:	95%
Confidence interval	(-)\$0.471 to \$0.439

Results Overview:

• P-value(0.946) > significant value, $\alpha(0.05)$, we would fail to reject the null hypothesis

• The 95% confidence interval is between -\$0.471 to \$0.439. includes 0, proves there is no much significant difference in average amount spent between group A & B.

Conclusion – Test2:

Metric evaluated – Average amount spent

Strong statistical evidence is not found to conclude that there is a significant difference in the average amount spent per user between the two groups.

Recommendation:



Introducing a banner featuring key products from the food and drink category at the top of the GloBox website.

Q & A:

Que: Which version of the landing page was more effective?

Ans: The landing page with the new banner

Que: What are the limitations of A/B testing?

Ans: Dataset contains a significant number of missing values and areas

where essential information is absent.

Que:How can we improve the effectiveness of our A/B testing?

Ans: Many ways like targeting the testing to a specific audience, and running the test for a longer period of time, rigorous statistical testing ...

"In embracing change, we embrace growth."

Thank you for your time and consideration.

Further queries contact: Deepthi Binu : dipkrishna@gmail.com