

Report

Group B

21/10/2020

Data collection

The data collection process was more difficult than expected. There were many restaurants that we had to exclude because they did not have a 0.5L beverage or a margarita pizza. For the beverage we always tried to pick Coca Cola or Pepsi when available or otherwise water. If those were not available, we took lemonade even though it is usually more expensive. For the extra measures we recorded, numbers of pizzas they offered, opening hours (which we converted into minutes opened in this analysis), as well as rating on Google and the number of ratings they received. The number of ratings is important since it gives the rating more credibility. We also recorded the longitude and latitude to calculate the distance from CEU and give students another variable if they want to pick one of these places for lunch or dinner.

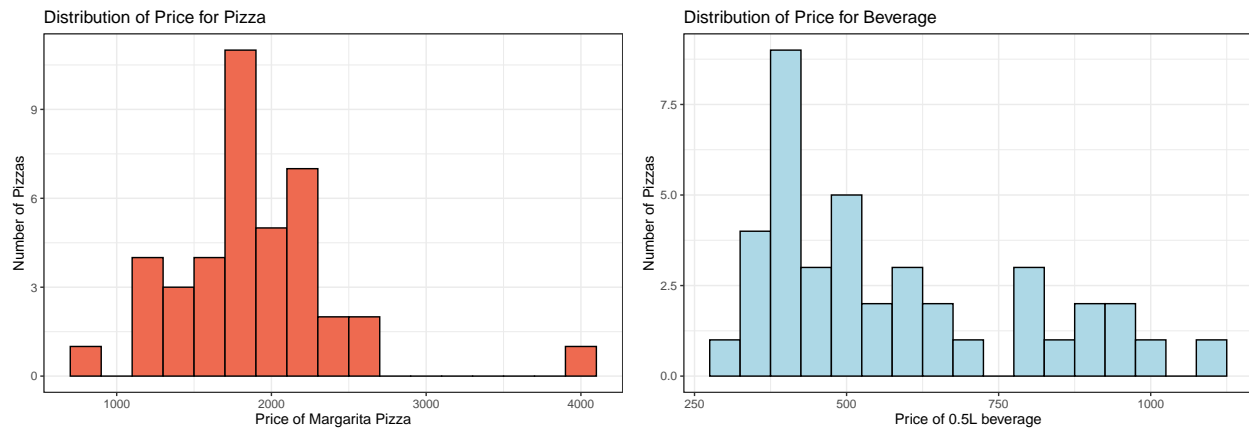
Calculations for opening hours and distance from CEU

Descriptive Statistics

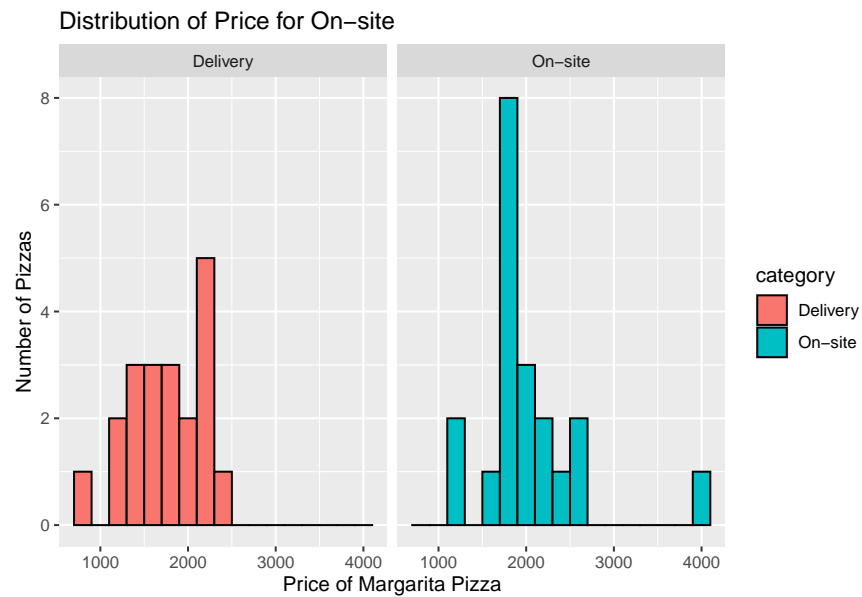
n	mean	median	min	max	sd	skew
40	1916.525	1885	890	3920	510.6978	1.3210519
40	573.500	495	280	1090	215.2464	0.8007159

Distributions

Price of pizza margarite and beverage



Price distribution on-site vs delivery



T-test

Hypothesis

Null mean(on-site)=mean(delivery) Alternative mean(on-site) not = mean(delivery)

Warning: package 'pander' was built under R version 4.0.3

Table 2: Welch Two Sample t-test: `price_offline` and `price_online`

Test statistic	df	P value	Alternative hypothesis	mean of x	mean of y
1.457	33.89	0.1542	two.sided	2033	1800

Summary and Conclusion

Overall the distribution of price of the beverages has a larger range than the prices of the pizza. And overall the prices of the pizzas on-site were more expensive then the ones for delivery, although with the delivery fee this may be evened out. The t-test also comes to the same conclusion where