

# Do restaurants with higher average costs receive higher customer ratings?

Zomato Restaurants Dataset (Kaggle): 7000+ data

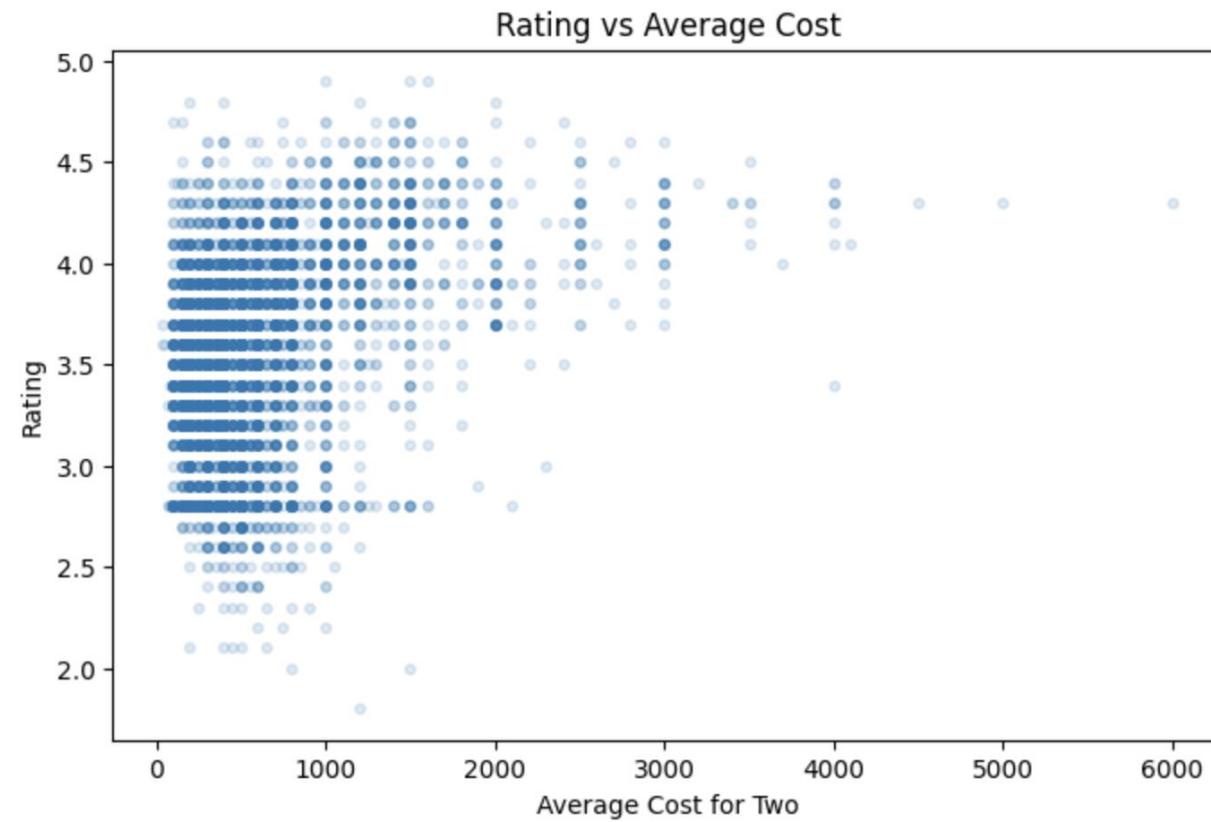
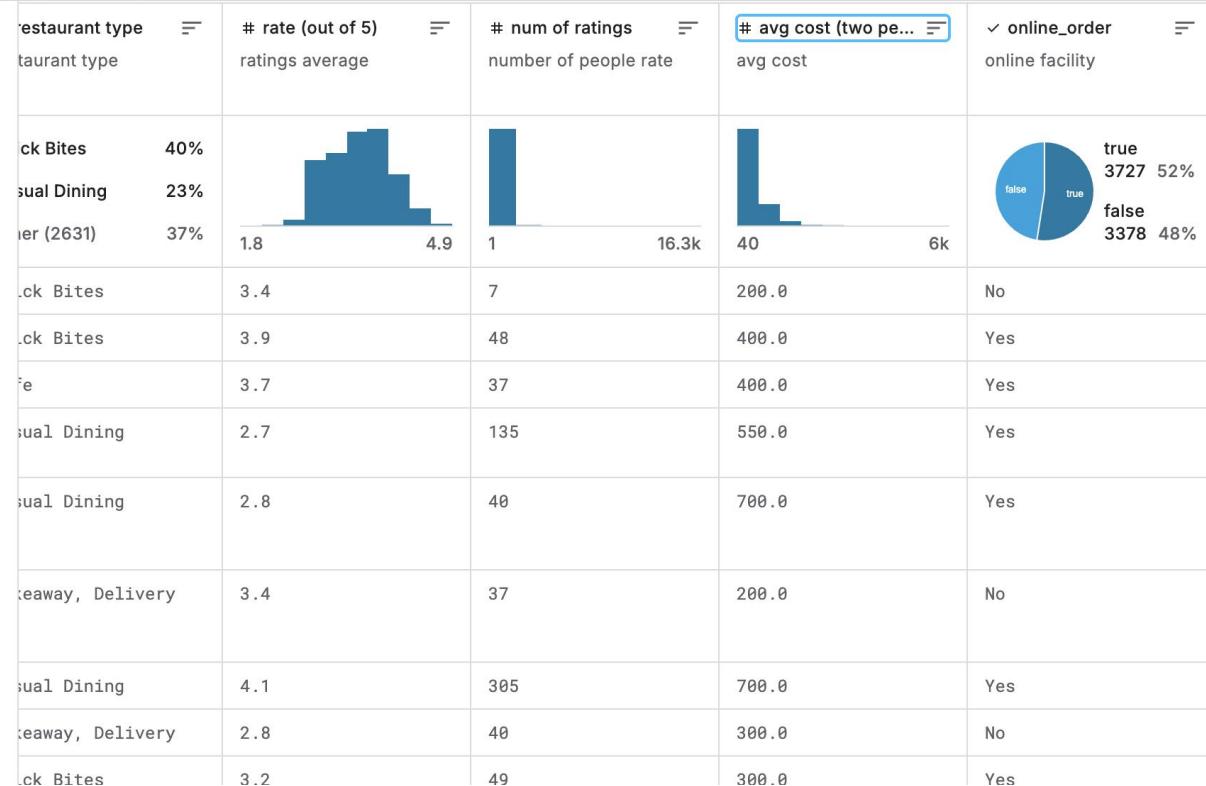
Key variables:

Rating (out of 5)

Average cost for two

## Zomato Restaurants Dataset

Data Card    Code (27)    Discussion (2)    Suggestions (0)



Null Hypothesis:  $H_0: \text{Rating} = \beta_0 + \beta_1(\text{Average Cost}) + \epsilon$

$H_0$  : Average cost has no relationship with rating

$H_1$  : Higher average cost is associated with higher ratings

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OLS Regression Results						
Dep. Variable:	rating	R-squared:	0.141			
Model:	OLS	Adj. R-squared:	0.141			
Method:	Least Squares	F-statistic:	1149.			
Date:	Fri, 12 Dec 2025	Prob (F-statistic):	2.64e-233			
Time:	09:28:15	Log-Likelihood:	-4006.9			
No. Observations:	6984	AIC:	8018.			
Df Residuals:	6982	BIC:	8031.			
Df Model:	1					
Covariance Type:	nonrobust					
coef	std err	t	P> t	[0.025	0.975]	
Intercept	3.3107	0.008	418.785	0.000	3.295	3.326
avg_cost	0.0004	1.11e-05	33.897	0.000	0.000	0.000
Omnibus:	114.742	Durbin-Watson:	1.907			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	109.245			
Skew:	-0.271	Prob(JB):	1.90e-24			
Kurtosis:	2.716	Cond. No.	1.10e+03			

$p=0.000 < 0.05$ , reject  $H_0$ .

There's a relationship between average cost and ratings

The coefficient = 0.0004 is positive,

$P>|t| = 0.000$

$\beta_1$  is statistically different from zero

If a coefficient is positive and statistically significant, then the relationship is statistically significantly positive.