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Yelp Business Decision Analysis Project

By Chaz and Sunil

Summary / Overview

- This project analyzes the Yelp Data Set to properly educate and propose a new business idea to an investor
- Recommendations to be based on data analysis
- Based on our research, our findings conclude that opening a **High-End Indian Restaurant in the Washington D.C. and Los Angeles, CA** markets would be safe, stable and carries with it less risk.

Business Problem

We made certain assumptions w.r.t. both the business and utilization of effective data analysis techniques, which has carried over in our analysis



Sample Data Set
has to be large
(> 100 businesses)



Implementation of quality
and service of proposed
business will be same as
comparables



Proposed business
will carry the least
risk possible

INPUTS

'category'
and
'location'

OUTPUTS

Business Information

- Name
- Location
- Category
- Price Level (1-4)
- Rating (0-5)
- # of Reviews

Review Information

- Text of review
- Review Rating
- Time Created

LIMITATIONS

- Only returning a maximum of 1,000 businesses per criteria
- Only providing business information within maximum radius of 25 miles
- Only providing three sample reviews per business.

SAMPLE DATA CAPTURED

Business Name	Business Categories	Address	Price Level	Reviews Count	Average Rating
Indika House	Indian, Asian Fusion	943 Broadway Brooklyn NY	2	74	5
Masala Grill	Indian	501B Atlantic Ave Brooklyn NY	2	215	3.5
Kinara II	Indian	368 Myrtle Ave Brooklyn NY	2	90	3.5
Dosa Hutt	Indian, Vegetarian	45-63 Bowne St Flushing NY	1	220	4.5
aRoqa	Indian, Bars, Tapas	206 9th Ave New York NY	2	300	4

Data /
Yelp API

Method Used Bottom's Up Analysis

Target Business Profile:

- **Indian Restaurant**
(due to our interest)
- **High-End Price**
(due to assumption that category offers most profitability)
- **Urban**

EVALUATE DIFFERENT MARKETS

Restaurants had best data

- ✓ Significant sample size
- ✓ Meaningful "Price Level" values

Analyzed data from each:

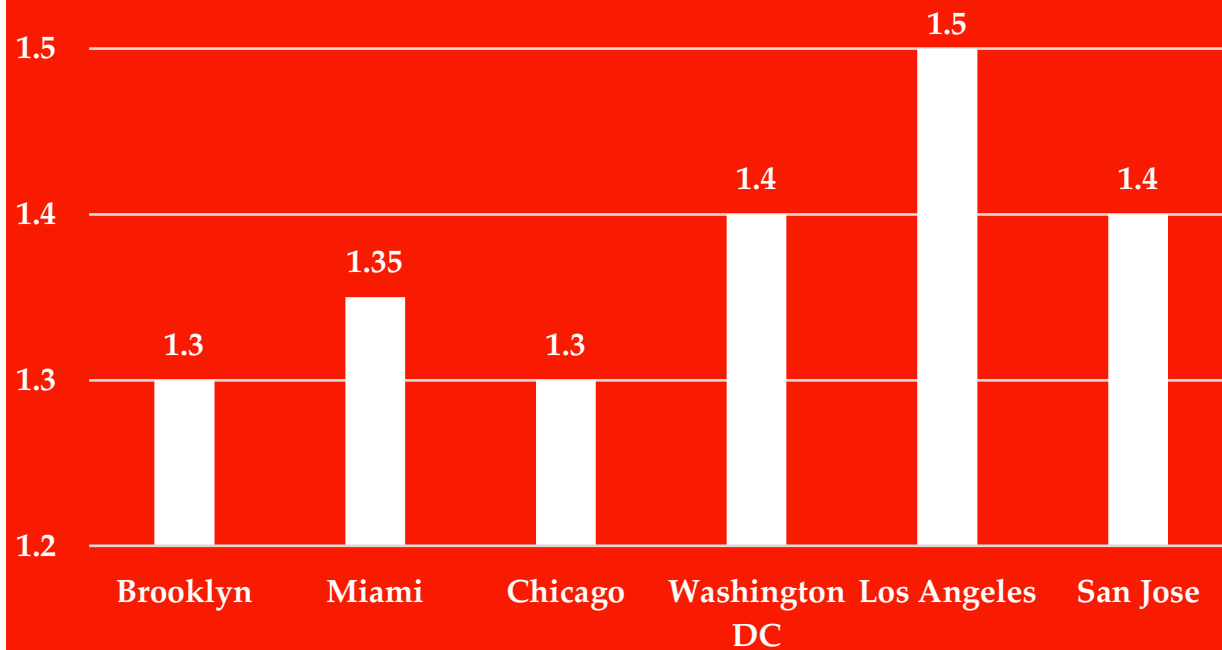
['HVAC Operator', 'Indian Restaurant',
'Estate/Divorce Attorney']

Identified Top 3 Yelp Categories:

[Home/Health Services, Restaurants,
Professional Services]

Narrowing Down Markets

Mean "Price Level" Rating by Market



Starting with 6 Urban Markets...

Top 3 Markets with the highest average "Price Level"

Mean value: accurate representation of concentration of available high-quality restaurants

Markets with higher concentration of high-end restaurants

San Jose, CA

Washington D.C.

Los Angeles, CA

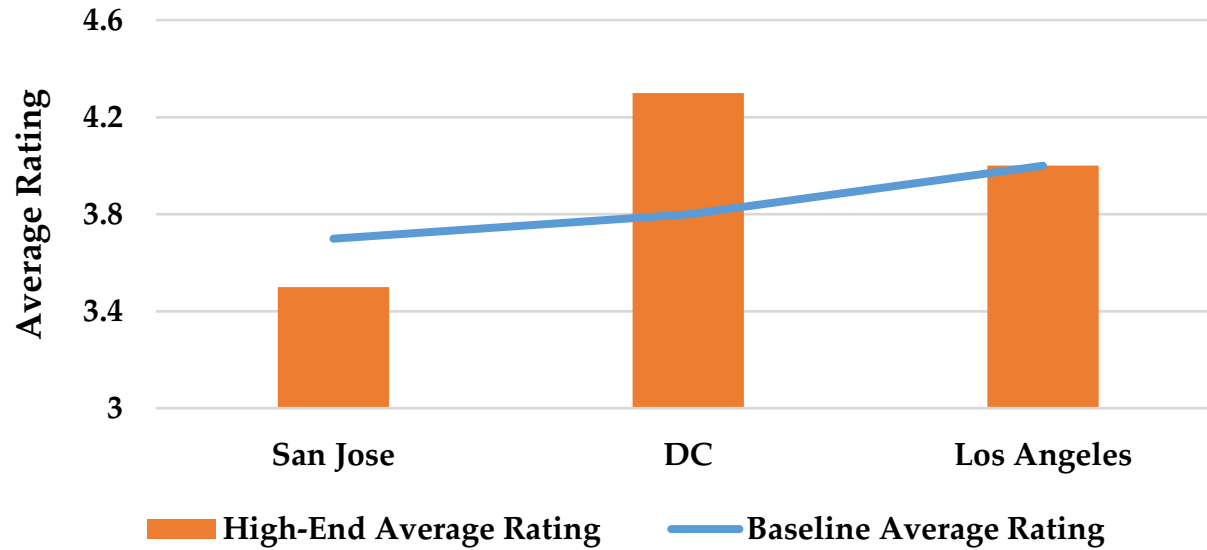
Creating Baselines / “Averages”

- **"Per Business Review Count" –**
 - Median value of all business review counts.
 - Reason: Accounts for outliers in the data
- **"Per Business Rating" –**
 - Mean value of all the business ratings.
 - Reason: Properly captures the "average" rating

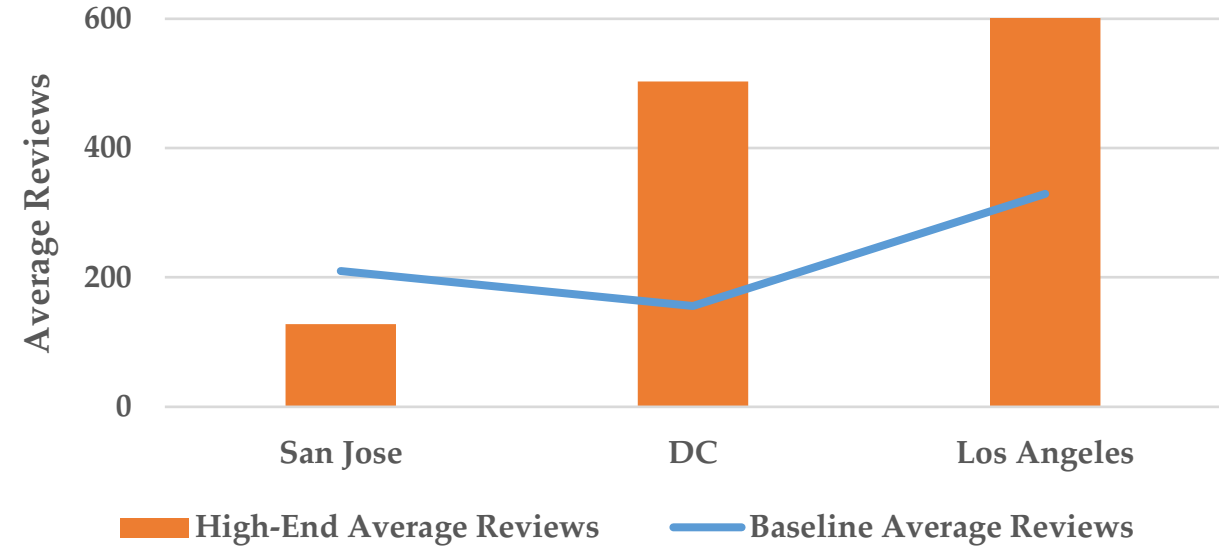
	Baselines	
	Reviews	Ratings
San Jose	210	3.7
Washington D.C.	156	3.8
Los Angeles	329	4

**GOAL IS TO COMPARE AGAINST PERFORMANCE OF
EXISTING HIGH-END INDIAN RESTAURANTS**

High-End Indian Restaurants
Average Rating vs Baseline



High-End Indian Restaurants
Average Review Count vs Baseline



High - End Indian Restaurant Performance

Assumptions made on "Averages"

Reviews: Just as popular, as much, if not more demand
Ratings: Consumers appreciative of quality and provide feedback
Better metrics mean they are healthy, less-risky markets to enter

**** Open a High-End Indian Restaurant in the Washington D.C and Los Angeles, CA markets ****

There is a higher concentration of existing high-quality Indian restaurants in these markets, signifying demand and less-risk, and the ratings and reviews are equal to, if not better than, the baseline for the average Indian restaurant in their respective markets, signifying consumer appreciation and less-risk/stability.

Results & Conclusions

Next Steps



Further analyses could yield additional insights to further improve our business process methods and our data analysis results



“Using Other Data Sources”

Such as Census demographics data and Consumer Surveys



“Adding Further Business Data”

Incorporating business-financials-health relevant data

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Thank You

By Chaz and Sunil