The New York Times

Restaurant Reviews

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Influence of Restaurant Reviews





DESTINATIONS

FOOD & DRINK

FOOD & DRINK

Cheese soufflé at heart of trial over French chef's lost Michelin star

A Reckoning With the Dark Side of the Restaurant Industry

In the wake of Anthony Bourdain's suicide, chefs and restaurateurs speak out about rampant stress, depression a field and ways to fight back

Agenda

Data



Findings









Analysis



Next Steps

Background

The New York Times (NYT) has a large reader base and plays an important role in shaping public opinion and setting the tone of the public discourse, especially in the U.S.

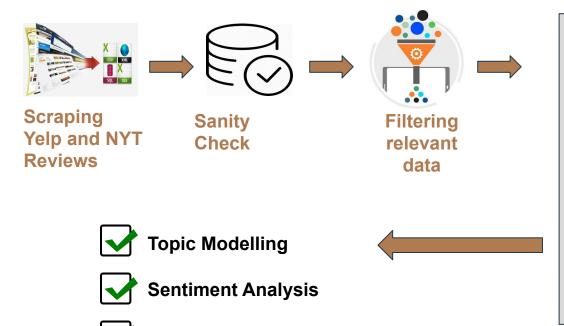
"I had steak at Peter Luger after The New York Times gave it a scathing zero-star review, and it didn't live up to the hype"

Objective

Understand the influence of NY reviews on restaurant perceptions



Data Summary



Evaluation

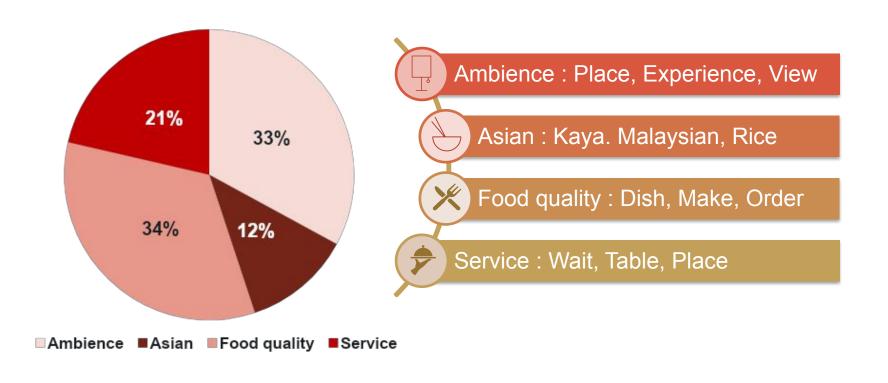
- > List of 19 restaurants
- Data filtered for different dates as per the New York Times review (6 months before and 6 months after)
- > Average 600 reviews per restaurant

Popular Keywords in Yelp Restaurant Reviews



Topic Modeling

What topics mattered the most?

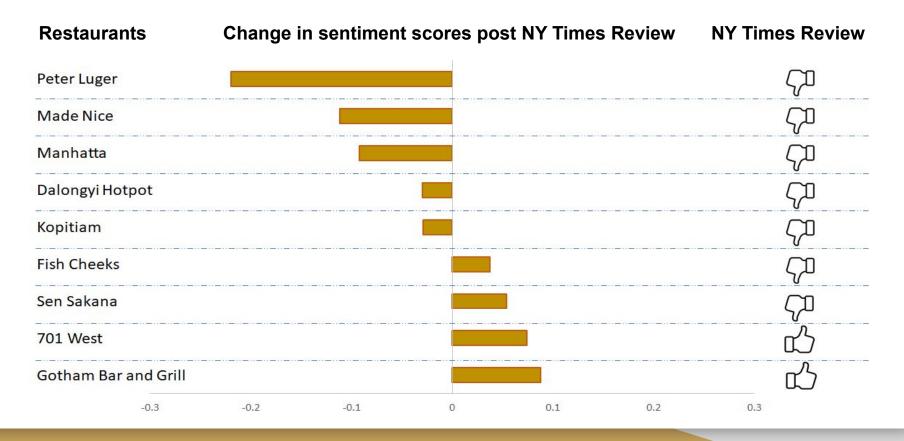


Topics Discussed across Restaurant Reviews

Restaurant	New York Times Reviews (Topics)	Yelp Reviews (Topics)
Coco Pazzo	Food Quality	Food Quality
Dalongyi Hotpot	Food Quality	Food Quality
Fish Cheeks	Food Quality	Food Quality
Gotham Bar and Grill	Food Quality	Ambience
Kopitiam	Asian	Asian
Made Nice	Food Quality	Food Quality
Manhatta	Ambience	Ambience
Peter Luger	Service	Service
Sen Sakana	Ambience	Ambience
Tsismis	Asian	Asian
701 West	Ambience	Ambience

Sentiment Analysis

How did review shift sentiment?



How Did NYT Review Affect Peter Luger's Sentiment?







Pre NYT Review

NYT Review Sentiment

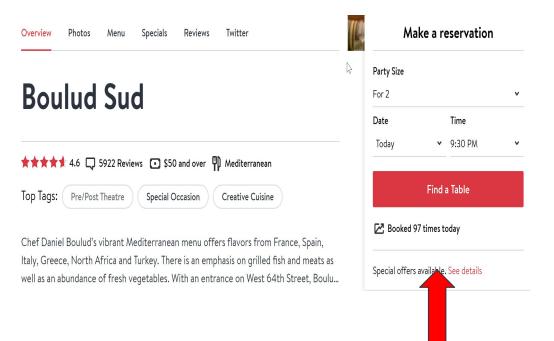
Post NYT Review

- 86% positive sentiment
- Popular keywords:
 Great, Amazing,
 Delicious, Dessert

- 67% negative sentiment
- Popular keywords:
 Undercooked, Modest,
 Chef

- **72%** positive sentiment
- Popular keywords:
 Bland,Poor
 Mediocre, Steak

Problem with Approximating Footfall at Restaurants



I'll reserve

- Confirmation is immediate
- No registration required
- No booking or credit card fees!

2 other people looked for your dates in the last 10 minutes

Summary



The NYC reviews do touch upon similar topics that are discussed between customers in Yelp



The reviews also catalyze the shift of sentiments across customers, thus effecting a lot on Restaurant's reputation

Future Scope



Yelp Sentiment Analyzer:

- Analysis of the topics, sentiments and trends to present a report on periodic basis
- Observing how changes in reviews and NYC article impact the business. Estimation of a dollar value



Scraping data from other webpages and observing whether these patterns are universal

Questions