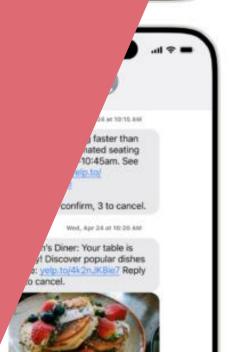
Yelp Inc. – Driving the Future of Reviewing

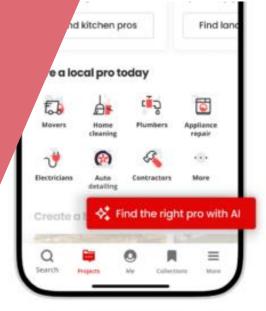
INSY 442 – Group 7

Antoine Payrar Asha Bui Kaibo Zhang

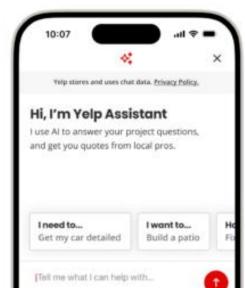
November 27th, 2024

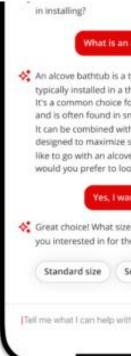


8









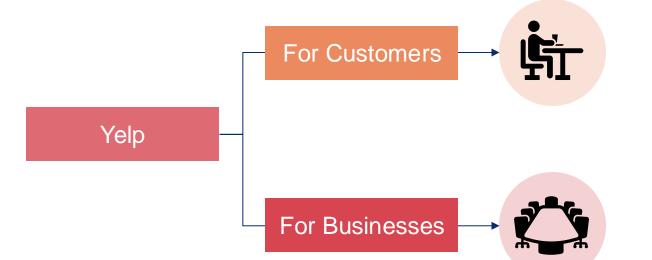


Agenda

- A. Yelp Overview
 - a. Company Overview
 - b. Financial Performance
 - c. Revenue Streams
- **B.** Industry Analysis
 - a. Competitors
 - b. New Industry Pressures
- C. Problem Statement
- D. Data Description
- E. Statistics Breakdown
 - a. Business Statistics
 - b. <u>User Statistics</u>
- F. Segmentation Analysis
 - a. Business Segmentation
 - b. <u>User Segmentation</u>
- G. Recommendation
- H. Impact
- I. Conclusion
- J. <u>Appendix</u>

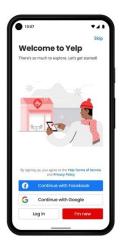


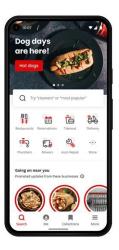
Yelp Offers a Traditional Review Platforms for All Businesses



- Business listings
- Searching capabilities
- Personal Profiles

- Advertising Solutions
- Business profiles
- Analytical tools







Business Model

- · Free for customers
- Businesses pay for the services



- · Yelp operates mainly in the US
- Operates in 30+ countries



Yelp connects customers with great businesses

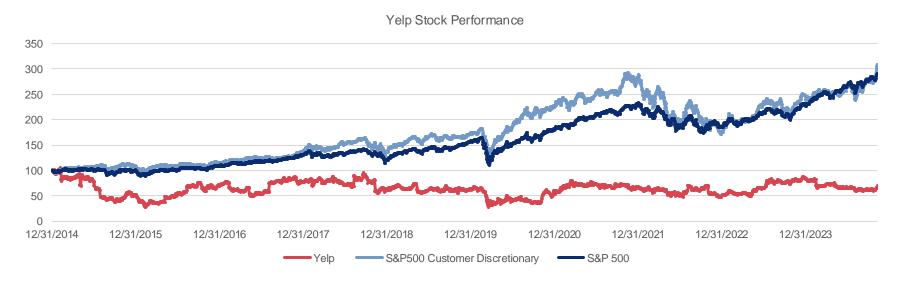




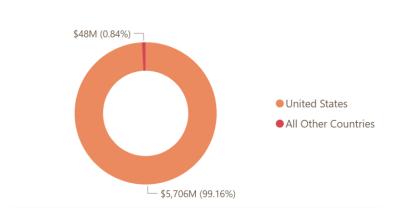


Yelp Company Performance

Poor financial performance driven by lack of revenue opportunities



Revenue by Geographic Area



Total Revenue over Time



Yelp has yet to successfully create long-term value, albeit growing revenue







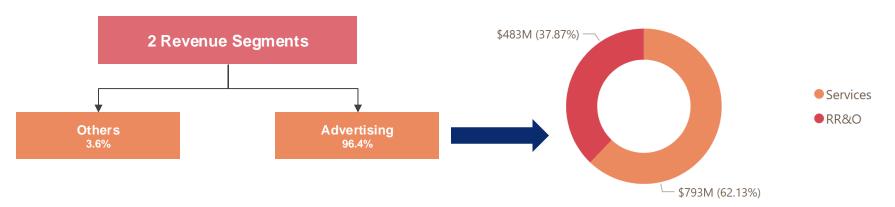
Yelp's revenue is heavily concentrated around their advertisement segment

Total Revenue

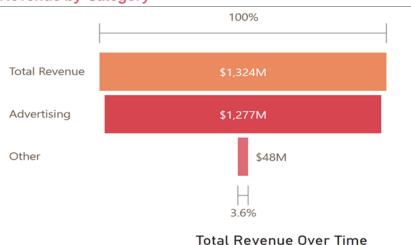
\$1.32bn

Revenue Model

Advertising Segment Breakdown



Revenue by Category



We believe the decrease in RR&O paying advertising locations reflects the challenging operating environment facing businesses in these categories.

David Schwarzbach Yelp CFO

Yelp generated \$1.32bn in 2023, yet it hasn't translated into value for shareholders

Source: Yelp SEC Filings

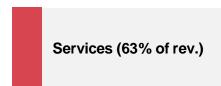




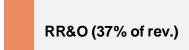
Deep Dive on Advertising Revenue

Surprisingly, most of Yelp's revenue comes from services

Advertising Business Breakdown



\$ * 4





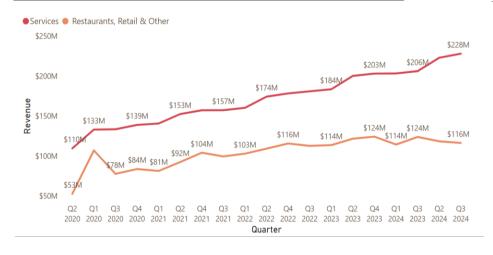




53%

of millennials have visited restaurants after seeing it on TikTok

Advertising Revenue over Time



Insights

- · RR&O is becoming less and less profitable
- But, as we will see, they make up most of the businesses signed up on Yelp
- Services are willing to pay for advertising, but restaurants are turning to different channels...

Declining profitability of the RR&O Segment – opportunity lies there







Yelp faces considerable competition from established players

Traditional Competitors



- 1B + monthly users\$11.1B rev. in 2023



- 490M + monthly users
- \$1.8B rev. in 2023
- Focusing travel experience



- 1.3M + monthly reviews
- \$479M rev. in 2023
- Focus on bookings

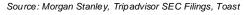
New Competitors

42% of people prefer using social media to find restaurants than search engines

> Kelly Esten Toast CMO



New industry pressures and established players are compressing Yelp's margins







TMT Overview



Intense Competition

- Dominance of established players, like Google that have integrated platforms and better information
- Businesses prefer optimizing their presence on other platforms



Shift Towards Influencers and Social Media Recommendations

- Consumers rely on influencer endorsement and peer recommendations
- Yelp's text-heavy reviews are losing value



Ad Revenue Pressures

- More affordable options than Yelp's advertisement model (Google Ads, Instagram Reels, TikTok, ...)
- Puts pressure on Yelp's ability to attract advertisers (which represents 97% of Yelp's revenue)

How do we get Yelp to be competitive again?

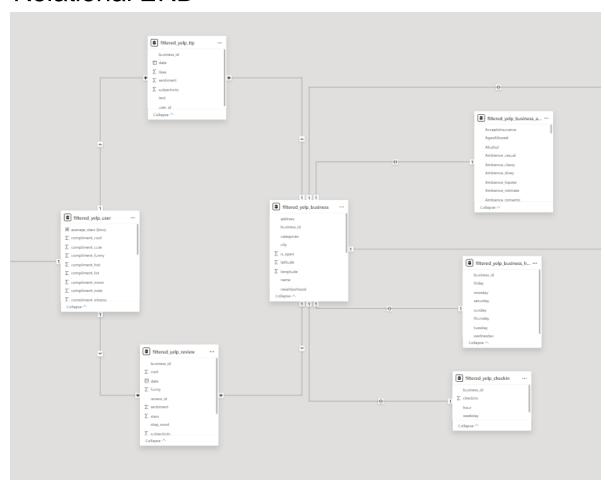
Considering Yelp's current and past performance, and strong industry pressures from competitors, what should be done?

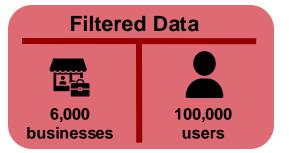


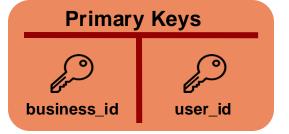
Data Description

The Yelp dataset comprises multiple sources relating to both businesses and users

Relational ERD







Tables

- business
- business_attributes
- business hours
- · check_ins
- reviews
- tips
- users

NLP: TextBlob for text sentiment analysis

Integration across these sources allowed us to create a comprehensive view for segmenting businesses and users effectively



Businesses Breakdown - Statistics

Businesses on Yelp belong to a wide range of categories









Insights



The average star rating for businesses is 3.63



Majority of businesses on Yelp are food & dining

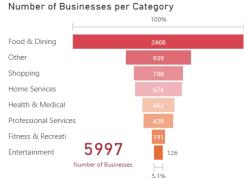


The sentiment of the reviews have an impact on the star rating

Business Distribution Worldwide

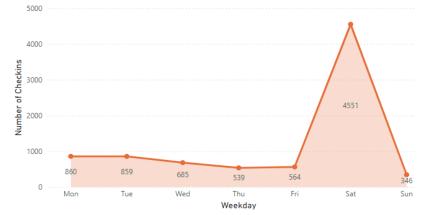








Checkins throughout the week







User Breakdown - Statistics

We see that Yelp Users are active, but registration numbers have decreased since the early 2010s











Users might not be registering on Yelp and choosing other competitors due to a lack of incentive



Businesses Breakdown - Segmentation

Businesses can be divided into 3 segments















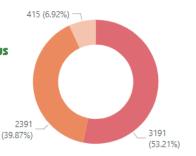


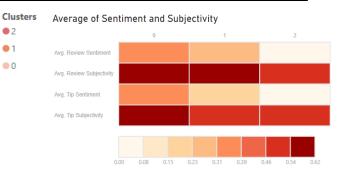
Cluster 0: Top Businesses

Cluster 1: Medium **Businesses**

Cluster 2: Bottom Businesses

- Businesses with the most potential to grow and become top businesses
- · Have a high number of reviews so users engage with them, but could have higher ratings





Feature Averages by Cluster



2 1

0



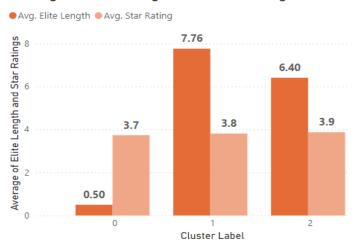




User Breakdown - Segmentation

Yelp users can be divided into 3 different segments

Average of Elite Length and Star Ratings



Average of Fans, Reviews, and Friends

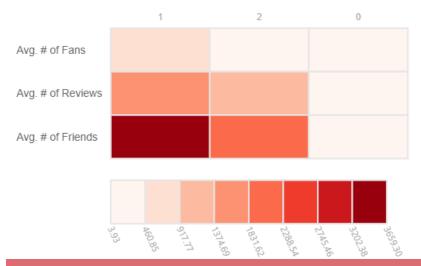
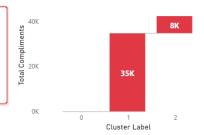


Table of Cluster Stats Cluster Label User # per Cluster Funny Score Avg. Days Yelping 0 27 4357 33 28349 5821

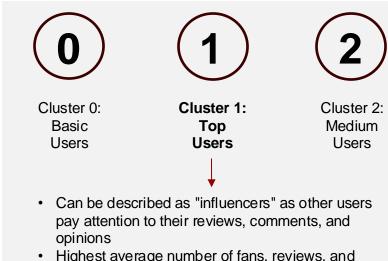
6596



Average Compliments Received

Insights

326



5607

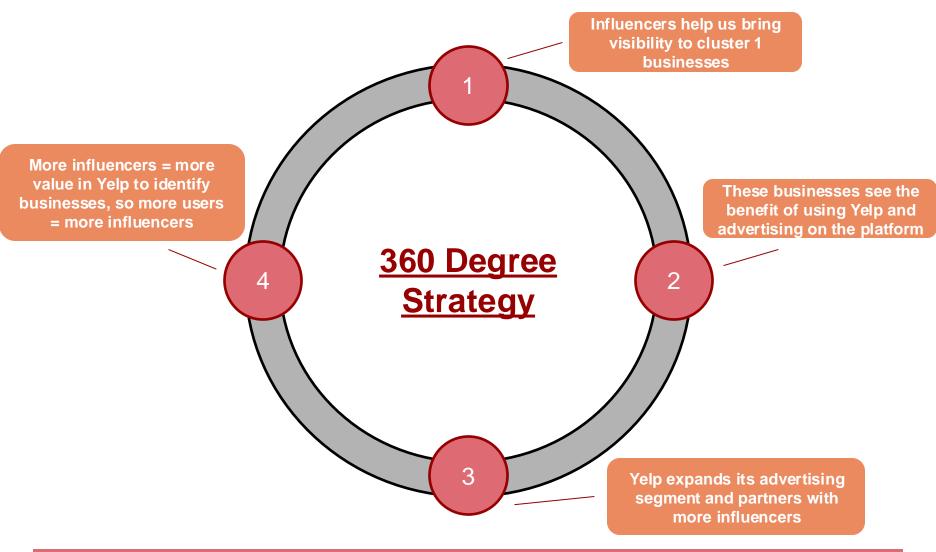
- Highest average number of fans, reviews, and friends
- Most average amount of compliments received
- Highest average number of years being an elite member

Top users are considered influential in the Yelp community



Recommendation in Practice

Looking at how Yelp can create more value through influencers



yelp 🚼

Influencers are the start to a flywheel strategy

Evaluating the impact of our strategy

Does the strategy create long term value to Yelp and shareholders?

NYSE: YELP

\$36.46 as of 11/18/2024



\$40.83 Upside: 12%

Note: Base case

Assumptions

- 2x number of "power businesses"
 - From 415 to 830
- These businesses drive the most value for Yelp
- Other growth assumptions follow street consensus

Sensitivity Analysis of our Results

- Bear case: 1.33x current number of "power businesses"
- Bull case: 2.5x current number of "power businesses"
- Management is set to grow Yelp by 1.6% upside

10.6% Upside

Which we can attribute to our recommendation

2 Senstivity Analysis Recommendation Incremental Growth Recommendation Incremental Growth **Terminal Value Multiple** Perpetuity Growth Rate 9.3x 9.8x 10.3x 10.8x 11.3x 0.00% 0.50% 1.00% 1.50% 2.00% (27%)(25%)(18%) (29%)(20%) Bear (22%)(20%)Bear (32%)(27%)(24%)(4%) (1%)5% 8% 2% 6% 15% 21% Base 2% **Base** 11% 17% 33% Bull 10% 13% 20% 23% Bull 23% 27% 45%

We envision that our strategy is going to increase Yelp's stock price by 10.6% net of management's current trajectory

Source: See Excel File Attached, Yelp Inc. SEC Filings



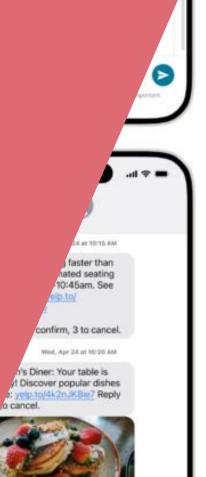


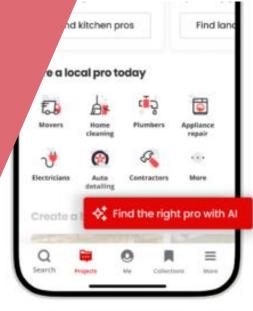
Thank You!

INSY 442 – Group 7

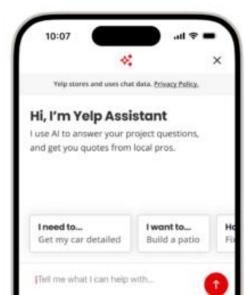
Antoine Payrar Asha Bui Kaibo Zhang

November 27th, 2024











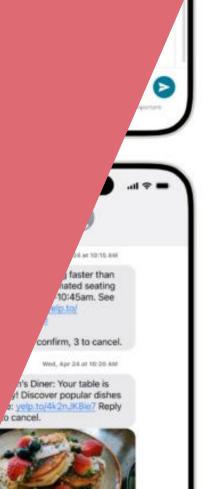


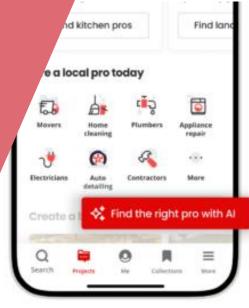
Appendix

INSY 442 – Group 7

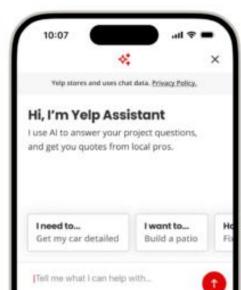
Antoine Payrar Asha Bui Kaibo Zhang

November 27th, 2024





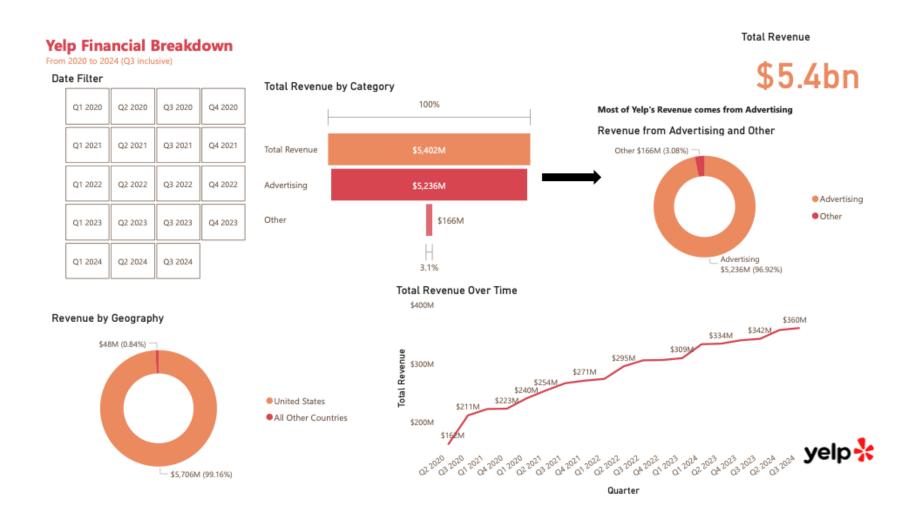








Financial Dashboard 1





Financial Dashboard 2

Yelp Financial Breakdown

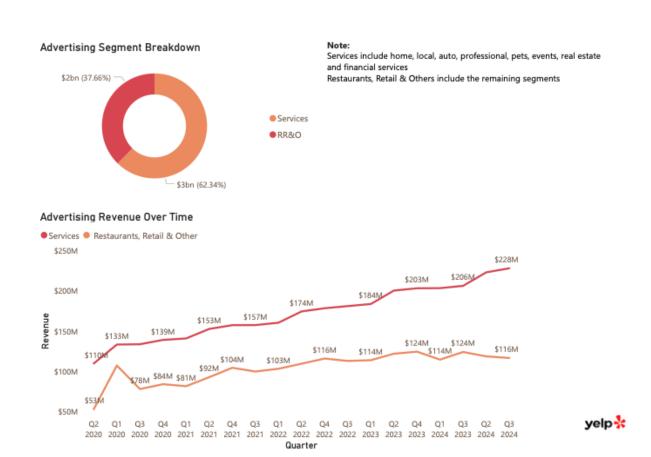
Looking at the Advertising Segment From 2020 to 2024 (Q3 inclusive)

Date Filter

Q1 2020	Q2 2020	Q3 2020	Q4 2020
Q1 2021	Q2 2021	Q3 2021	Q4 2021
Q1 2022	Q2 2022	Q3 2022	Q4 2022
Q1 2023	Q2 2023	Q3 2023	Q4 2023
Q1 2024	Q2 2024	Q3 2024	

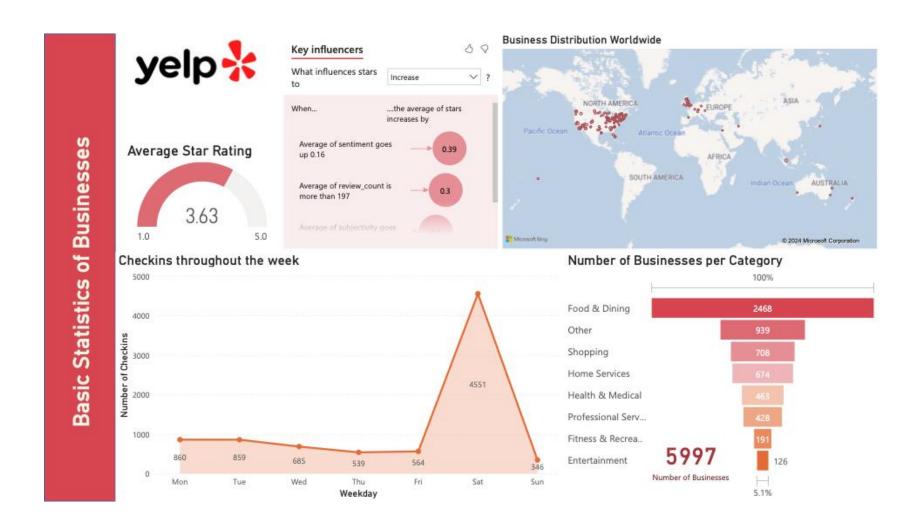
Advertising Revenue

\$5.24bn



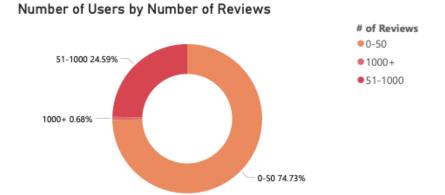


Basic Statistics of Businesses





Basic Statistics of Users



Basic Statistics of Users



6M
Total Friend Connections

Review # Group Filter
of Reviews

0-50

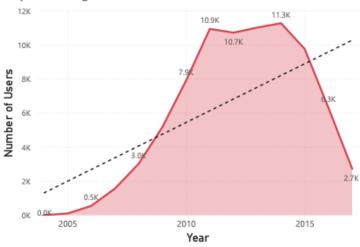
1000+

51-1000

Distribution of Star Ratings

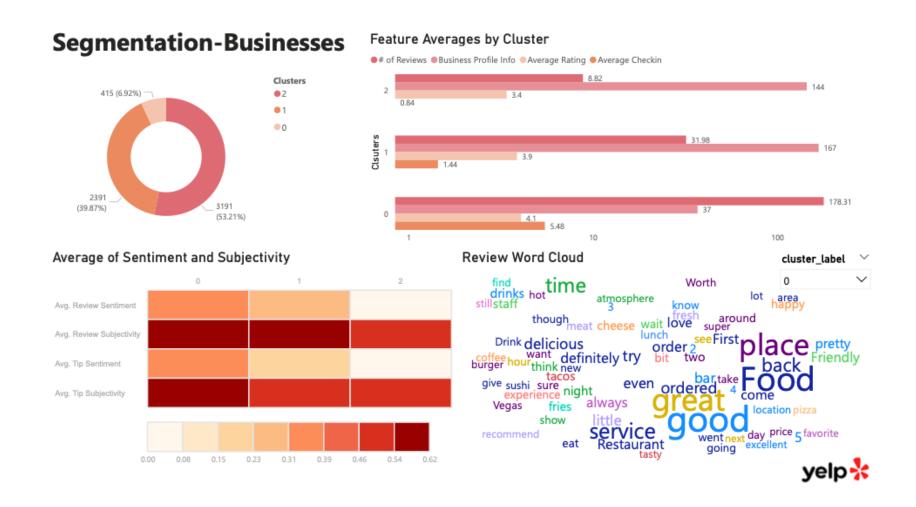


Yelp User Registration Over Time





Segmentation of Yelp's Businesses





Segmentation of Yelp's User Base

Average Compliments Received



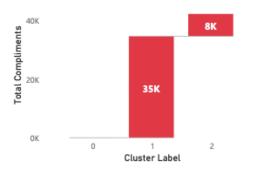
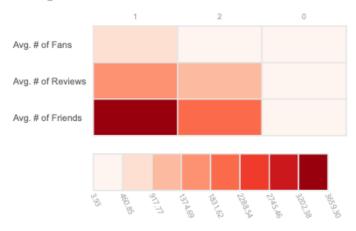
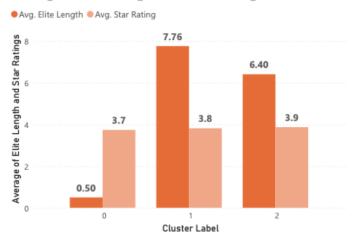


Table of Clus	ble of Cluster Stats							
Cluster Label	User # per Cluster	Funny Score	Avg. Days Yelping					
0	80590	27	4357					
1	33	28349	5821					
2	326	6596	5607					

Average of Fans, Reviews, and Friends



Average of Elite Length and Star Ratings



Appendix 7

Yelp – Financial Assumptions

Yelp - Assumptions

							Foreca	sted		
		2022A	2023A	2024A	2025E	2026E	2027E	2028E	2029E	2030E
ncome Statement										
1 Revenues										
Operating Revenues	2	15.7%	12.0%	4.7%	8.6%	3.5%	7.6%	7.6%	7.2%	8.5%
Bear	1				6.6%	1.5%	5.6%	5.6%	5.2%	6.5%
Base	2				8.6%	3.5%	7.6%	7.6%	7.2%	8.5%
Bull	3				9.6%	4.5%	8.6%	8.6%	8.2%	9.5%
2 EBIT										
EBIT as % of revenue	2	4.9%	5.9%	9.8%	10.2%	10.5%	11.6%	7.8%	10.0%	9.89
Bear	1				8.2%	8.5%	9.6%	5.8%	8.0%	7.89
Base	2				10.2%	10.5%	11.6%	7.8%	10.0%	9.89
Bull	3				11.2%	11.5%	12.6%	8.8%	11.0%	10.89
Recommendation										
1 EBIT as % of Current EBIT										
EBIT Incremental Increase	2	-	-	- F	3.0%	3.8%	4.6%	5.4%	6.1%	6.99
Bear	1				1.0%	1.3%	1.5%	1.8%	2.0%	2.39
Base	2				3.0%	3.8%	4.6%	5.4%	6.1%	6.99
Bull	3				5.0%	5.8%	6.6%	7.4%	8.1%	8.99

Note:

Base case assumes that Yelp can double the amount of "power businesses" from its baseline in 2024. We assume this happens in 5 years, with steady increments. Bull case assumes that Yelp can 2.5x the amount of "power businesses" from its baseline in 2024. We assume this happens in 5 years, with steady increments.

Bear case assumes that Yelp can only convert a 1/3 of the amount of "power businesses" from its baseline in 2024. We assume this happens in 5 years, with steady increments.

Table for Reference

	#of Users	% of Total	1
Cluster Label 0 - Power Users	415	6.92%	
Cluster Label 1 - Average Business	2391	39.87%	
Cluster Label 2 - Lower Quality	3191	53.21%	
Total	5997	1	> fro

--> from dashboard analysis





Appendix 8

Yelp – Financial Schedule

Yelp - Schedule

	Historical				Forecasted						
Unacona Otatamant	2021A	2022A	2023A	2024A	2025E	2026E	2027E	2028E	2029E	2030E	
Income Statement											
1 Revenues											
Operating Revenue	\$1,032	\$1,194	\$1,337	\$1,401	\$1,522	\$1,575	\$1,694	\$1,823	\$1,954	\$2,119	
YoY Growth		15.7%	12.0%	4.7%	8.6%	3.5%	7.6%	7.6%	7.2%	8.5%	
Total Revenues	\$1,032	\$1,194	\$1,337	\$1,401	\$1,522	\$1,575	\$1,694	\$1,823	\$1,954	\$2,119	
2 EBIT											
Operating Income % of Revenue	\$32 3.1%	\$58 4.9%	\$79 5.9%	\$137 9.8%	\$155 10.2%	\$166 10.5%	\$197 11.6%	\$143 7.8%	\$195 10.0%	\$208 9.8%	
Recommendation Tab											
1 FCF											
Current EBIT	-	-	-	-	\$155	\$166	\$197	\$143	\$195	\$208	
New EBIT	-	-	-	-	\$5	\$6	\$ 9	\$8	\$12	\$14	
% of current FCF	-	-	-	-	3.0%	3.8%	4.6%	5.4%	6.1%	6.9%	





Yelp – Recommendation Improvement

Yelp Inc. - DCF

utputs ase Running			Recommendatio	- Coultab		_		Recommendation Switch	
ase Running		t .	Recommendatio	n Switch					Hereld
0.44	Door		D	- 0-0		0		For Reference	Upsid
ase Switch	Base		Recommendatio	n On?		On		Recommendation Off	1.3%
ase Running	2							Recommendation On	12.09
								Recommendation Incremental Grow	rth 10.6%
eneral Assumptions		1	Bridge to Equity					Bridge to Equity	
aluation Date	11/19/2024		Exit Multiple Me	thod				Gordon Growth Method	
cker	YELP		Discount Rate			9.4%		Discount Rate	g
nare Price	\$36.46		Sum of PV of Ca	sh Flow		\$705.22		Sum of PV of Cash Flow	\$70
Shares Outstanding	69.16		Terminal Multiple	9		10x		Terminal Growth Rate	1
ash	\$261.59		Terminal Value			\$2,649,12		Terminal Value	\$3.06
ebt	\$70.30		PV of Terminal \	/alue:		\$1,545.25		PV of Terminal Value	\$1,78
			Implied Termina	al Enterprise V	alue	\$2,250.47		Implied Terminal Enterprise Value	\$2,49
CF Assumptions		ı	(+) Cash			\$261.59		(+) Cash	\$261
ax Rate	20.0%	l .	(-) Debt			\$70.30		(-) Debt	\$70
ACC	9.4%		Implied Equity	/alue		\$2,582.36		Implied Equity Value	\$2,82
kit Multiple	10x		piled Equity			JE,002.00		poc 2quity faide	42,02
erpetuity Growth Rate	1.0%		Shares Outstand	lina		69.16		Shares Outstanding	6
ote:	11010		Implied Share Pr			\$37.34		Implied Share Price	\$4
ACC from Bloomberg			Implied Upside			2.4%		Implied Upside/Downside	12
CF		2025E	2026E	2027E	2028E	2029E	2030E	l	
1 Current Business Model									
Revenue		\$1,522	\$1,575	\$1,694	\$1,823	\$1,954	\$2,119		
% Growth		8.6%	3.5%	7.6%	7.6%	7.2%	8.5%		
EBIT		\$155	\$166	\$197	\$143	\$195	\$208		
% of Revenue		10.2%	10.5%	11.6%	7.8%	10.0%	9.8%		
(-) Taxes NOPAT		(\$31) \$186	(\$33) \$199	(\$39) \$237	(\$29) \$171	(\$39) \$234	(\$42) \$250	•	
NOPAT		\$186	\$199	\$237	\$171	\$234	\$250		
2 Addition of Our Recommendation									
EBIT from recommendation		\$5	\$6	\$9	\$8	\$12	\$14		
% of Current EBIT		3.0%	3.8%	4.6%	5.4%	6.1%	6.9%		
(-) Taxes		(\$1)	(\$1)	(\$2)	(\$2)	(\$2)	(\$3)		
NOPAT		\$6	\$8	\$11	\$9	\$14	\$17		
3 FCF								l	
Total NOPAT		\$192	\$206	\$248	\$180	\$249	\$267		
(+) Depreciation & Amortization		\$39	\$39	\$40	\$40	\$46	\$49		
(-) Capital Expenditures		(\$40)	(\$40)	(\$40)	(\$40)	(\$40)	(\$40)		
(-) Change in Net Working Capital		(\$196)	(\$12)	(\$27)	(\$36)	(\$36)	(\$36)		
Unlevered Free Cash Flow		(\$5)	\$193	\$220	\$145	\$219	\$240	•	
		0.91	0.84	0.76	0.70	0.64	0.58		
Discount Factor		(AF)	\$161	\$168	\$101	\$140	\$140	-	
Discounted Free Cash Flow		(\$5)							
		(\$5) \$705							
Discounted Free Cash Flow								•	
Discounted Free Cash Flow Sum of PV of UFCF	mmendation Increm	\$705 nental Growth						Recommendation Incremental Grow	<u>th</u>
Discounted Free Cash Flow Sum of PV of UFCF enstivity Analysis	Terminal Value Mu	\$705 nental Growth ultiple						Perpetuity Growth Rate	_
Discounted Free Cash Flow Sum of PV of UFCF enstivity Analysis Reco 9.3x 9.8x	Terminal Value Mu	sental Growth ultiple 10.8x	11.3x				0.00%	Perpetuity Growth Rate 0.50% 1.00% 1.50°	— % 2.00%
Discounted Free Cash Flow Sum of PV of UFCF enstivity Analysis	Terminal Value Mo 10.3x (22%)	\$705 nental Growth ultiple	11.3x (18%) 8%		Φ.	Bear Base	0.00% (32%) 2%	Perpetuity Growth Rate	% 2.00% b) (20%



