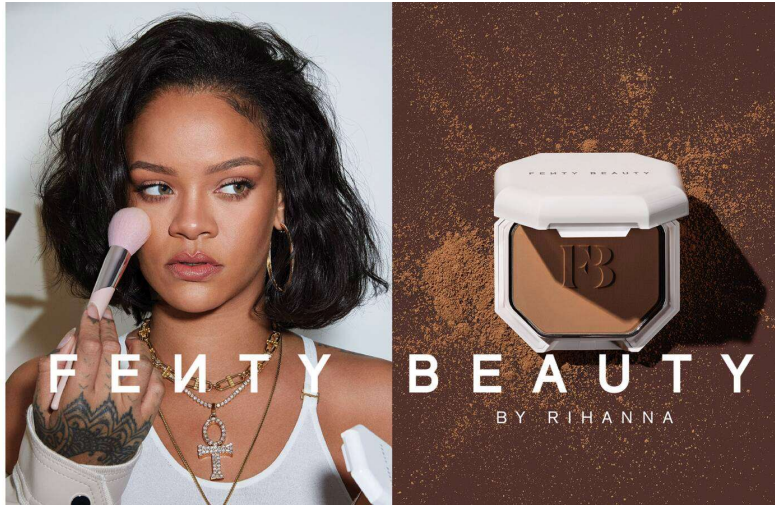




FENTY BEAUTY ANALYSIS

AMANDA AIRD, EMILY EDWARDS, KARINA JOINER AND ELLIE PAUL

OBJECTIVE



- Fenty Beauty
- Identify possible collaborations using historical collaborations
- Understand Tweets about Fenty Beauty
- Recommendations and improvements for future research

ANALYSIS OVERVIEW



Fenty Beauty collaborations
with influencers



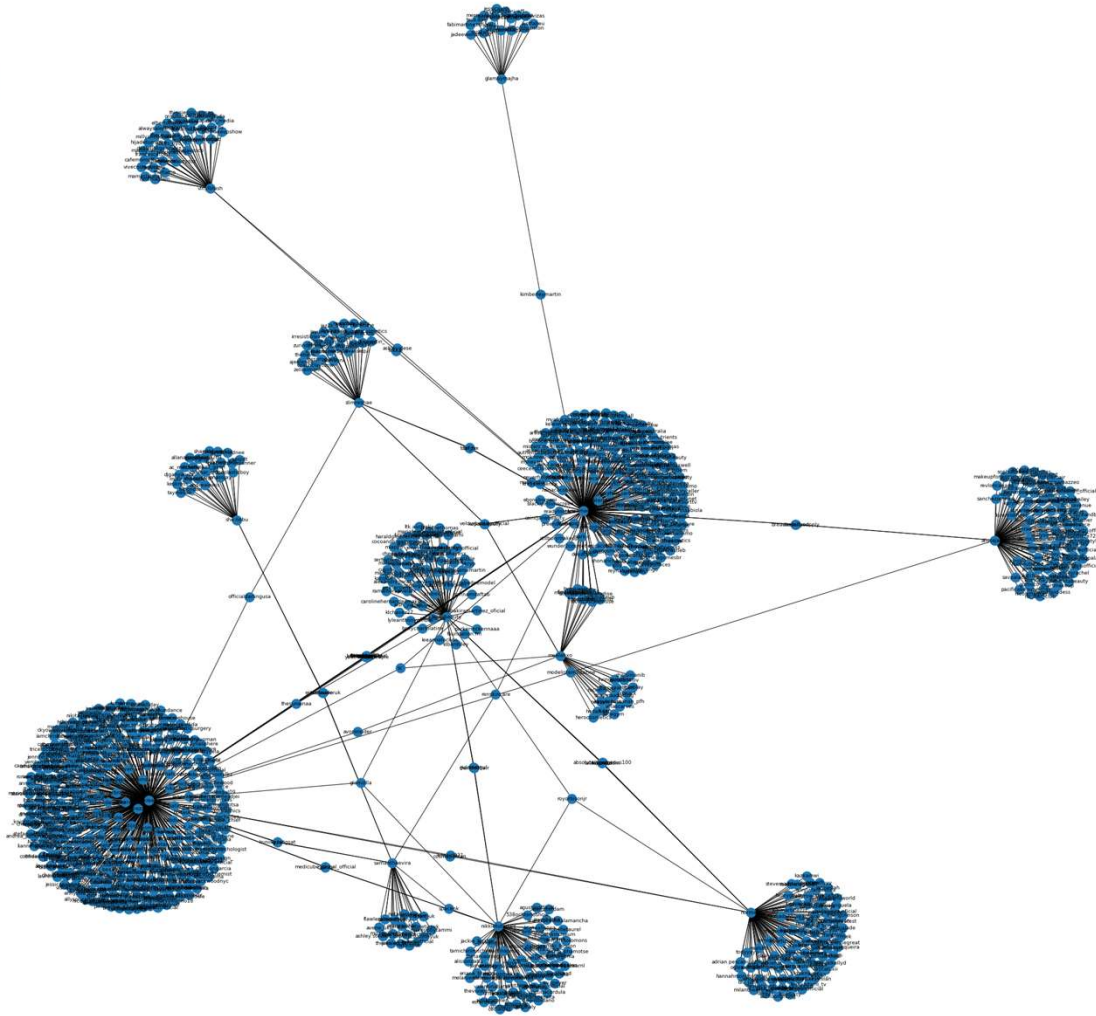
Social Network Analysis: Find
egos and boundary spanners



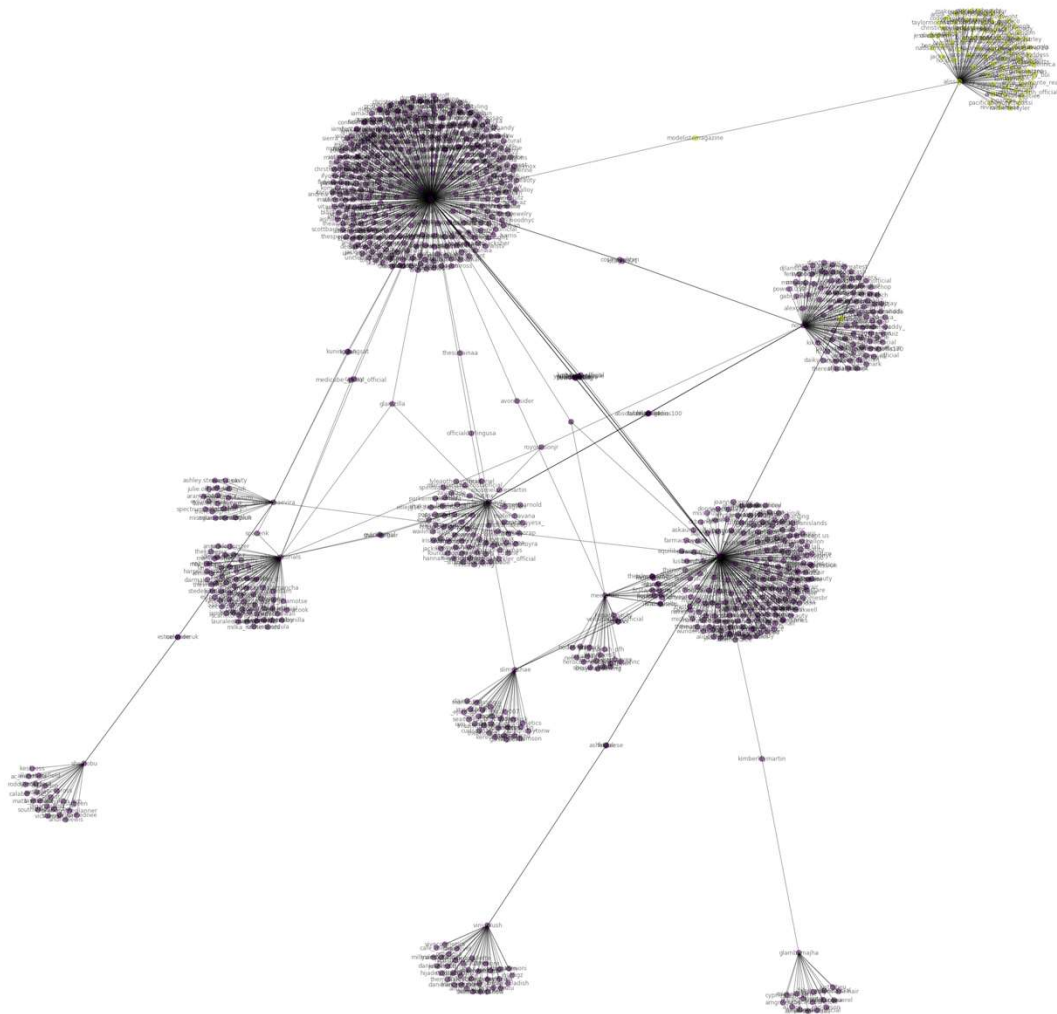
Text Analysis: Topic Modeling
and NER

DATA
COLLECTION:
SOCIAL
NETWORK
ANALYSIS

- PhantomBuster: Instagram followers
 - Appended each influencers dataset
 - Dropped columns to create nodes and edges



NETWORK VISUALIZATION



COMMUNITY VISUALIZATION

DEGREE CENTRALITY

```
'jackieaina': 0.1878121878121878,  
'lyssamariexo': 0.1028971028971029,  
'normani': 0.046453546453546456,  
'alissajanay': 0.04295704295704296,  
'nikkietutorials': 0.03396603396603397,  
'fentybeauty': 0.03296703296703297,  
'vinylblush': 0.01848151848151848,  
'meelahxo': 0.015984015984015984,  
'slimreshae': 0.015984015984015984,  
'she.nobu': 0.011988011988011988,  
'samanthaevira': 0.011488511488511488,  
'glambymajha': 0.008491508491508492,  
'royorbisonjr': 0.0014985014985014985,  
'glamzilla': 0.0014985014985014985,  
'sc': 0.0014985014985014985,  
'koparibeauty': 0.0014985014985014985,  
'velourbeautyofficial': 0.0014985014985014985,  
'caliray': 0.000999000999000999,
```

CLOSENESS CENTRALITY

```
'jackieaina': 0.21157668757176348,  
'sc': 0.17694316664803966,  
'youthtothepeople': 0.17490243813174614,  
'flowerbeauty': 0.17490243813174614,  
'kosas': 0.17490243813174614,  
'peachandlily': 0.17490243813174614,  
'dalijahamelia': 0.17490243813174614,  
'lysbeautyofficial': 0.17490243813174614,  
'dongala': 0.17490243813174614,  
'lyssamariexo': 0.16627294021682928,  
'glamzilla': 0.16133053429674207,  
'kitagirl1921': 0.15777612840036342,  
'cosmopolitan': 0.15777612840036342,  
'modelistemagazine': 0.1571988986623133,  
'caliray': 0.1553049360278276,
```


BETWEENNESS CENTRALITY

```
jackieaina': 0.19720943280361852,  
lyssamariexo': 0.11340409013224496,  
normani': 0.0429945237131323,  
alissajanay': 0.04045067208850209,  
nikkietutorials': 0.03205639436019968,  
fentybeauty': 0.02980436317278479,  
modelistemagazine': 0.02573208000492080,  
samanthaevira': 0.021394172759287802,  
glamzilla': 0.020473598370560894,  
kitagirl921': 0.01766173272736514,  
cosmopolitan': 0.01766173272736514,  
vinylblush': 0.01743908265647396,  
slimreshae': 0.013674878188717437,  
sc': 0.012133487205331885,  
thesunainaa': 0.011903127241307725,
```

RECOMMENDATIONS

- Glamzilla
 - High betweenness and degree centrality
 - Low closeness score
- Kitagirl921
 - High betweenness
 - Low closeness score
- Modeliste Magazine and Cosmopolitan
 - High betweenness
 - Low closeness score

IMPROVEMENTS

- Scrape all Instagram followers, not just a subset
- Filter out current influencers
- Choose more accounts to scrape

DATA COLLECTION:TEXT ANALYTICS

- Kaggle Dataset: Tweets pertaining to Sephora
- Subset to only tweets that mention Fenty Beauty
- Remove stop-words, punctuation, etc.

SUBJECTIVITY AND POLARITY

Mean scores

- Polarity = .089
(mainly neutral, closer to positive than negative)
- Subjectivity = .346
(mainly objective, slightly neutral)

LDA MODEL

Topics:

- 1 and 2 = Fenty in general / brand awareness
 - 3 and 4 = marketing and product specific
 - 5 and 6 = product releases / online drops
-
- Jupyter Notebook for interactive model
 - Sephora tweets are most effective for finding topics surrounding the Fenty brand

NER

- Last 10 rows

	entity	label	explanation
21074	babi fenti sephora rihanna	PERSON	People, including fictional
21075	fenti skin	PERSON	People, including fictional
21076	sephora	PERSON	People, including fictional
21077	fenti skin	PERSON	People, including fictional
21078	fenti	PERSON	People, including fictional
21079	sephora fenti	PERSON	People, including fictional
21080	sephora birthdayi sephora fenti music sephora	PERSON	People, including fictional
21081	fenti skin sephora	PERSON	People, including fictional
21082	african	NORP	Nationalities or religious or political groups
21083	africa nigeria	NORP	Nationalities or religious or political groups

IMPROVEMENTS

- Need a new dictionary with influencer names for a more effective NER analysis
- More tweets about influencers found from Social Network Analysis



QUESTIONS?