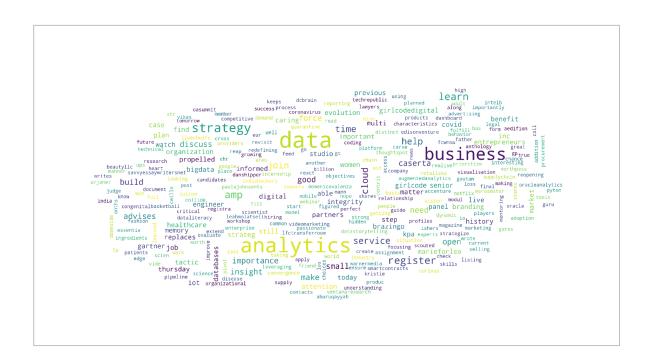
Analytics on Data Analytics Strategy

Ismael Rodriguez MIS 670 Final Project 12 May 2020



Topic 5 co-hashtag network analysis

Degree Centrality

analytics datascience



Analytics on Data Analytics Strategy

Why data analytics strategy? Why Twitter?

What approach does this research take?

Why were the results?

What is the way ahead?

Why Data Analytics Strategy? Why Twitter?

Businesses undervalue data strategy

Data strategy can be offensive or defensive (DalleMule and Davenport)

Data can enhance strategic business aims (Ladley and Redmon)

K-State courses cover both defensive and offensive topics

This study could identify coursework that addresses specific data strategy topics

This study could reveal topics around which to build a specific course in data analytics strategy

What approach does this research take?

Basic research plan

Retrieve data from Twitter

Clean and pre-process the data

Analyze data

Refine processes and optimize data sampling

Strengths of this approach

Multiple iterations improved the quality of data

Scalable approach, could and did handle much larger data samples

Incorporated simple automation techniques

Limitations of this approach

Multiple iterations led to varying quantities of data

Multiple applications necessary to conduct research

What were the results?

Decriptive statistics: the final 55 tweets

Frequency analysis: visualizing clouds

Network analysis: mentions, hashtags, and links

Topic modeling: 14 topics, 55 tweets, so many combinations

Drill down: network analysis by topic

What is the way ahead?

One very fancy keyword search?

Overall, the study yielded **modest** but encouraging **results**

The real surprise came in combining topics with word clouds and network analysis

Strategic topics worth considering?

Yes, but skewed toward **offensive** considerations: HR, operations, and logistics

Success at what cost?

Success depends on quality data!

Broader search topics yielded too much garbage

This project veered toward too little data

Moving forward

Explore spatial component of data

Use predictive text analysis on the tweets of prominent data analytics strategic thinkers

Adapt the model to other social media platforms

Overview of the data

Not a lot of discussion: 55 Tweets.

Initial Tweets: 87

Tweets without null values: 55

Basic Tweet Statistics:

Average Word Count: 18 words

Minimum Word Count: 6 words

Maximum Word Count: 28 words

Average tweet length: 130 characters

Minimum tweet length: 77 characters

Maximum tweet length: 144 characters

Top 5 Words

data 32
analytics 27
business 18
strategy 8
amp 5



Overall Sentiment

Data strategy is a positive

Vader Compound Scores

Total Positive: 33 tweets, mean score 0.52

Total Neutral: 21 tweets, mean score -0.25 Total Negative: 1 tweets, mean score 0.00



Overall Sentiment

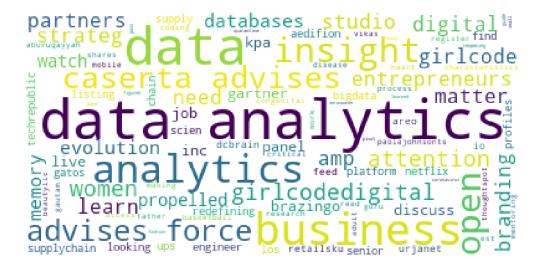
Data strategy is a positive

Vader Compound Scores

Total Positive: 33 tweets, mean score 0.52

Total Neutral: 21 tweets, mean score -0.25

Total Negative: 1 tweets, mean score 0.00



Overall Sentiment

Data strategy is a positive

Vader Compound Scores

Total Positive: 33 tweets, mean score 0.52 Total Neutral: 21 tweets, mean score -0.25

Total Negative: 1 tweet, mean score 0.00



Overall mention network analysis

Network analysis: mentions, hashtags, and links



Overall mention network analysis

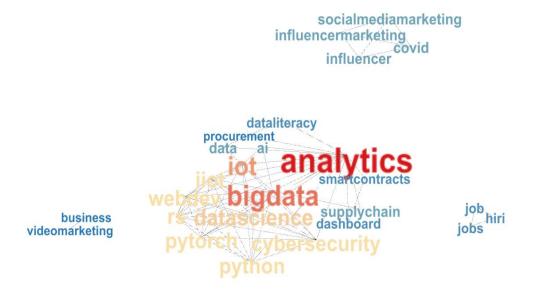
Network analysis: mentions, hashtags, and links

Betweenness Centrality



Overall co-hashtag network analysis

Network analysis: mentions, hashtags, and links



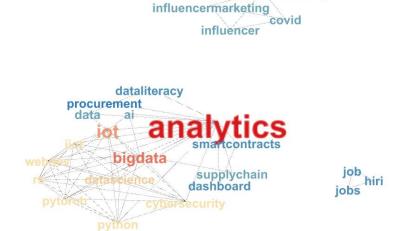
Overall co-hashtag network analysis

business

videomarketing

Network analysis: mentions, hashtags, and links

Betweenness Centrality



socialmediamarketing

Overall link network analysis

Network analysis: mentions, hashtags, and links

Degree Centrality

https://www.linkedin.com/in/ampzmx/ TeckVado

> http://www.888beautyllc.com chardesmbeauty

SuriyaSubraman

Kristie_t_Mann https://www.linkedin.com/in/suriyansubramanian/
https://www.intel.com/content/www/us/en/architecture-and-technology/optane-dc-persistent-memory.html

teamdappquery https://dappquery.com/

Overall link network analysis

Network analysis: mentions, hashtags, and links

Betweenness Centrality

https://www.linkedin.com/in/ampzmx/ TeckVado

> http://www.888beautyllc.com chardesmbeauty

SuriyaSubraman

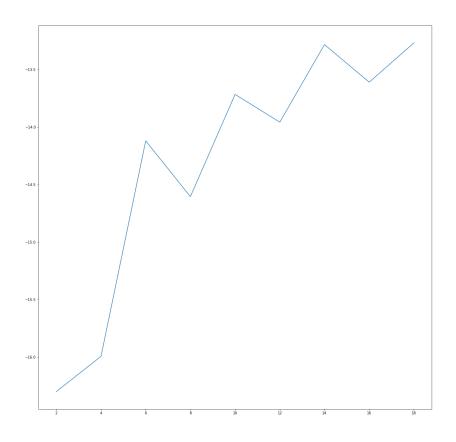
Kristie_t__Mann https://www.linkedin.com/in/suriyansubramanian/
https://www.intel.com/content/www/us/en/architecture-and-technology/optane-dc-persistent-memory.html

teamdappquery https://dappquery.com/

Topic Modeling

Topic modeling: 14 topics, 55 tweets, so many combinations

K Values



Topic Modeling

Topic modeling: 14 topics, 55 tweets, so many combinations

Words by Topic

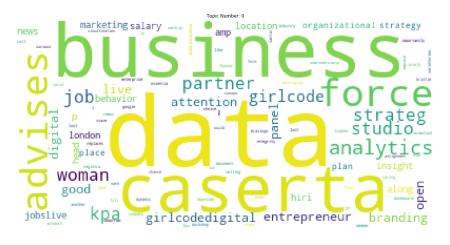
- 0: data, advises, caserta, force, business, analytics, kpa, job, partner, strateg
- 1: strategy, help, business, thoughtspot, mobile, paolajohnsonts, process, read, share, making
- 2: data, analytics, skill, candidate, technical, strong, demand, high, augmentedanalytics, start
- 3: informed, market, carve, edge, distinct, competitive, well, collide, data, analytics
- 4: data, analytics, engineer, senior, build, pipeline, passionate, custom, advertising, using
- 5: analytics, business, open, matter, heart, disease, congenital, coding, adult, access
- 6: data, analytics, register, cloud, multi, fcwnow, true, last, registra, workshop
- 7: business, else, find, northpass, edisonventure, still, vision, people, go, ingredient
- 8: business, amp, join, time, register, thursday, still, learn, unit, positively
- 9: service, dynamic, tool, learn, reporting, relationship, lp, improve, visualisation, insight
- 10: analytics, history, case, previous, data, win, loss, legal, lawyer, judge
- 11: today , prioritize , adoption , model , nine , healthcare , join , step , patient , provider
- 12: business, strategy, integrity, tactic, replaces, marieforleo, caring, importance, objective, vide
- 13: data, analytics, memory, discus, evolution, gartner, inc, brazingo, database, watch

Topic Modeling

Topic modeling: 14 topics, 55 tweets, so many combinations

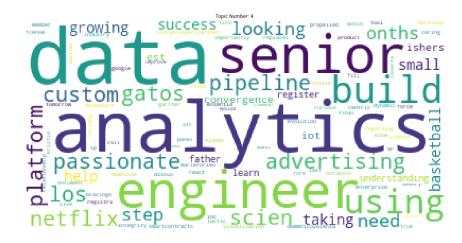
Topic 0 co-hashtag network analysis





Topic 4 co-hashtag network analysis





Topic 6 co-hashtag network analysis





Topic 7 co-hashtag network analysis





Topic 13 co-hashtag network analysis

Degree Centrality

smartcontracts dashboard analytics

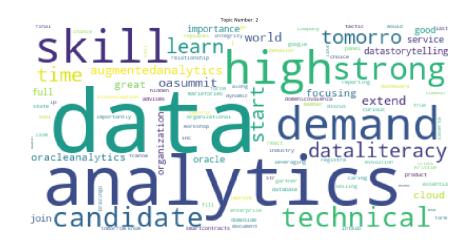


Topic 2 co-hashtag network analysis

Degree Centrality

oasummit augmentedanalytics oracleanalytics

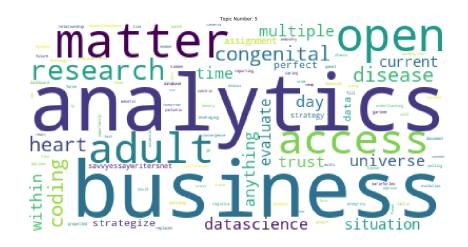
dataliteracy analytics data



Topic 5 co-hashtag network analysis

Degree Centrality

analytics datascience



Topic 8 co-hashtag network analysis

Degree Centrality

procurement analytics



Topic 12 co-hashtag network analysis



