President Trump's Inaugural Address: Text Analysis

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ABSTRACT : This article aims to provide seven in-depth text analyses with respect to President Trump's inaugural address, which was delivered in January 2025. A point to note is that the term nation was the most mentioned one, closely followed by the term America, the term country, thank you, the term Panama, and the term crisis, in that order. A further point to note is that the topic nation is the most pivotal one, closely followed by the topic America, the topic country, the term thank, and the topic government, in that order. Another point to note is that the terms peace, boarders, children, outpouring, overspending, opponents, emergency, nation, administration, and others show up centrally in the map. This, in turn, implies that these keywords count as the most pivotal ones as well as the most noteworthy ones, thereby being regarded as core ones. It is vital that Trump's government is likely to do tasks relevant to core terms first. It is worthwhile pointing out, on the other hand, that the term nation has the highest possibility to be a main topic, with the probability of 1.5%. It is also significant to mention that Trump's inaugural address has 29 positive terms, while it has 35 negative terms. Most importantly, we obtained the score of +29 with respect to the total positive terms, while we obtained the score of -35 with respect to the total negative terms. This seems to suggest that President Trump views the current state of America as somewhat pessimistic, despite the fact that America is the richest and most advanced country. The linguistic significance of our research is that seven different analyses have provided us with the real picture of what President Trump is thinking about. Furthermore, sentiment analysis makes it easier to assess President Trump's thoughts on America and the wider word.

KEYWORDS: text analysis, word cloud, network, topic, similarity, term frequency

I. INTRODUCTION

This article aims to provide seven in-depth text analyses with respect to President Trump's inaugural address, which was delivered in January 2025. As is well-known, Trump's policy prioritized U.S. economic interests, aiming to protect American jobs and industries. He believed that past trade agreements had been disadvantageous to the U.S., leading to job losses and the offshoring of manufacturing. Trump implemented tariffs on various goods, particularly from China, to address what he called unfair trade practices, intellectual property theft, and market imbalances. Notably, he placed tariffs on steel and aluminum imports from countries like China, the EU, Canada, and Mexico. Trump's inaugural address was analyzed by Python by employing big data analysis techniques. In order to carry out this, we attempted to conduct seven different analyses. First, we aim to conduct term frequency analysis to contemplate noteworthy terms that occurred in the inaugural address. The term frequency analysis highlights the occurrences of certain terms, thereby accounting for the use of pivotal words in the inaugural address. This, in turn, explains what terms constitute the inaugural address (the main text). Also, this, in turn, reveals what Trump is going to do in the future. Second, we attempt to conduct word cloud analysis to see the main topics constituting the inaugural address. This analysis leads us to see noteworthy topics that are made up of the inaugural address. The so-called word cloud is the visual representation of key topics through which we can figure out main terms that serve as main topics. Third, we look into a cluster that refers to a cohesive group with similarities. This cluster analysis enables us to grasp what words have something in common, that is, similarities. Put differently, the relevant words are classified into a cohesive group.

The so-called cluster forms a text, which, in turn, consists of a document. Fourth, we aim at conducting network analysis to see the connection between words. Most importantly, words are classified into core words, less core ones, and peripheral ones. The so-called core ones show up centrally in the map, less core ones surround the core ones, and peripheral ones turn up at the edges. This analysis makes it easier to figure out the weight of words in the augural address. Fifth, we aim to conduct topic analysis to inquire into the probability for words to become main topics. Main topics consitute a text, which, in turn, consist of the inaugural address. By measuring the probability of becoming main topics, we can grasp what terms will be key and pivotal topics. Sixth, we attempt to conduct similarity analysis to probe into words that are closest to America. We try to classify them into several ones in descending order of probability. This analysis helps us grasp which words serve as the closest to America. Finally, we aim to conduct sentiment analysis, which assesses President Trump's thoughts

on America and the world. We try to classify terms into positive ones or negative ones and then multiply them by their frequency. This analysis helps us understand President Trump's thoughts on America and the world.

II.   METHODS AND DATA COLLECTION

Our research was carried out by Python by conducting seven different analyses. We excluded adjectives, adverbs, relative pronouns, pronouns, gerunds, to-infinitives, and others from the original text. Simply put, we extracted only nouns and verbs. Nouns and verbs suffice for seven different analyses since they convey core messages. When it comes to our data, we obtained Trump's inaugural address from Google in February 2025. Perhaps it is worthwhile saying that we conducted seven different analyses of the inaugural address by employing big data analysis techniques, which include term frequency analysis, word cloud analysis, network analysis, cluster analysis, topic analysis, similarity analysis, and sentiment analysis.

III.   RESULTS

Term Frequency Analysis : In what follows, we aim to present term frequency analysis that refers to the occurrences of main terms constituting the inaugural address. Python generates the term frequency of noteworthy terms in descending order, which, in turn, helps us understand what kinds of terms are made up of the inaugural address, thereby enabling us to understand what Trump is thinking about. Have a look at Table 1. We included only the top 40 terms for the reason of space limitations:
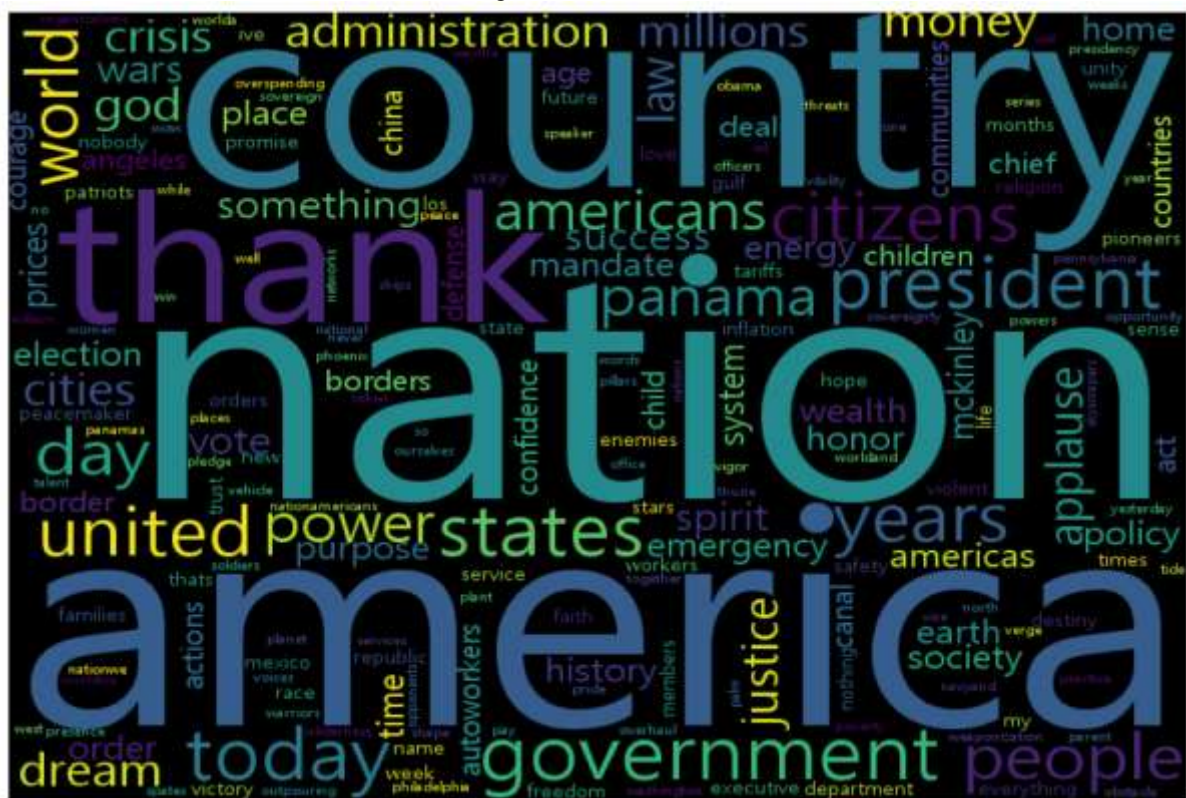
Table 1 Term Frequency

Number	Term	Frequency
1	nation	17
2	America	15
3	country	14
4	thank	11
5	government	10
6	president	9
7	states	9
8	today	9
9	citizens	8
10	united	8
11	years	8
12	day	7
13	people	7
14	world	7
15	Americans	5
16	Panama	5
17	power	5
18	administration	4
19	cities	4
20	crisis	4
21	dream	4
22	god	4
23	justice	4
24	law	4
25	millions	4
26	money	4
27	something	4
28	spirit	4
29	success	4
30	vote	4
31	wars	4
32	earth	3
33	election	3
34	emergency	3
35	energy	3

36	history	3
37	honor	3
38	mandate	3
39	Mckinley	3
40	order	3

It is probably worthwhile pointing out that the term nation has the highest frequency and proportion. More specifically, nation obtained 17 tokens (the highest frequency and proportion among all the words). This seems to imply that the term nation refers to America and that this word is closely related to his inaugural address, hence being a core term in Trump's inaugural address. Particularly noteworthy is the fact that the term nation is followed by the term America. To be more specific, America ranks second, with the occurrences of 15. It seems to me that this took place, due to his inaugural address. Put differently, President Trump has to do with America. What is interesting is that America is followed by country. Exactly the same can be said about the term country. I think this may have taken place for the same reason as the term America. It must be stressed, on the other hand, that the term thank ranks fourth, with the occurrences of 11. Put differently, thank you was used 11 times during delivering his speech. It might have happened, due to guests' applause and cheering. It is also important to mention that the term government was used 10 times, which may be closely related to his future plan. It would be unfair not to mention that we can find out something negative in his inaugural address. Panama ranks fifteenth, with the occurrences of 5. Trump mentioned Panama during his criticism of trade agreements, especially the Panama Free Trade Agreement (FTA). Trump, during his presidential campaign, made several claims about how trade deals like the FTA were unfair to the U.S. In his view, American companies were being hurt by such trade agreement. Simply put, the FTA gets on his nerves. Similarly, we can also find out something negative in his inaugural address, namely crisis. It ranks eighteenth, with the occurrences of 4. I think of this as indicating that Trump thinks that this is a critical moment. It therefore seems clear that the term nation was the most mentioned one, closely followed by the term America, the term country, thank you, the term Panama, and the term crisis, in that order.

Word Cloud Analysis : In the following, we aim to generate a word cloud that refers to the visual representation of core topics constituting the inaugural address. This word cloud is supposed to present core topics, which occur with varying fonts, depending the degree of the importance of the relevant terms:
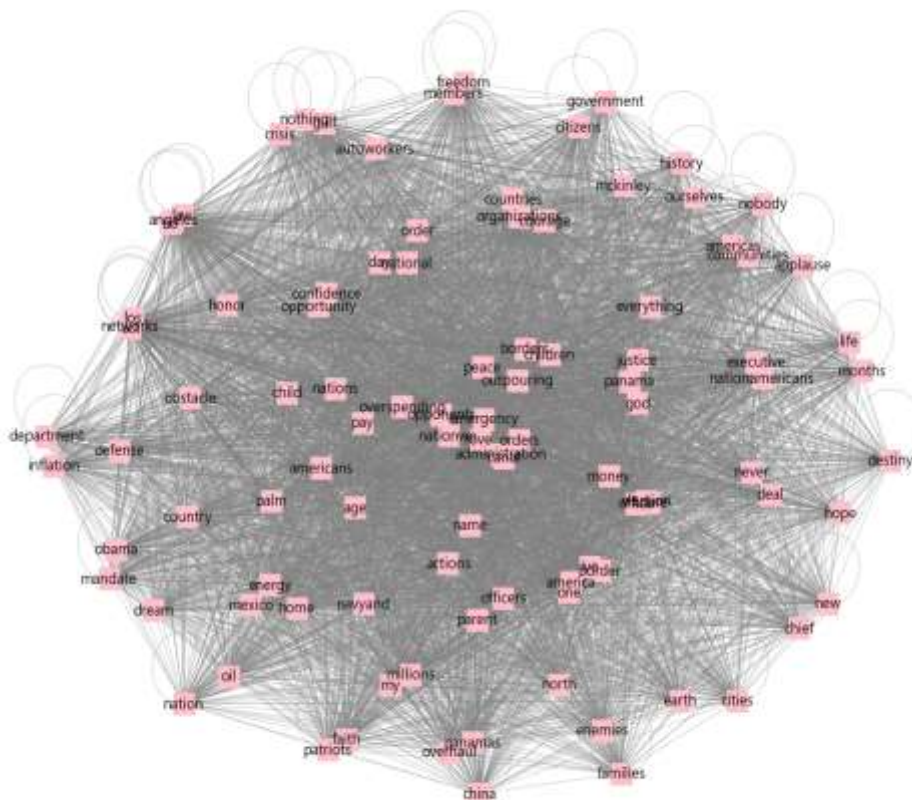
Figure 1 A Word Cloud

It is worthwhile to have a look at the term nation, which is biggest in the word cloud. This, in turn, indicates that this topic is the most pivotal one as well as the most noteworthy one, thereby counting as a core topic. It is also worth noticing that the term nation is followed by the term America. That is to say, the term America is the second biggest topic, which we take as meaning that this topic is one of the most noteworthy topics, hence counting as one of core terms constituting the inaugural address. It is interesting to point out that the term country has the third biggest font size, which, in turn, implies that this term is one of the most pivotal topics, hence indicating the third most mentioned one in the inaugural address. It is also worth observing that the term thank has the fourth biggest font size in the word cloud, which can be interpreted as the fourth most mentioned term in the inaugural address. It is interesting to mention that the term government has the fifth biggest font size, which is construed as the fourth most pivotal topic. It therefore seems reasonable to conclude that the topic nation is the most pivotal one, closely followed by the topic America, the topic country, the term thank, and the topic government, in that order.

Network Analysis : This section is dedicated to presenting core networks that are closely related to the inaugural address. The so-called network refers to the connection between the relevant terms. Most importantly, the relevant words are classified into three types, namely core ones, less core ones, and peripheral ones. More importantly, core ones show up centrally in the map, less core ones surround core ones, and peripheral ones turn up at the edges. Let s have a look at Figure 2:

Figure 2 Networks

It is worth pointing out that as exemplified in Figure 2, the terms peace, boarders, children, outpouring, overspending, opponents, emergency, nation, administration, and others show up centrally in the map. This, in turn, implies that these keywords count as the most pivotal ones as well as the most noteworthy ones, thereby being regarded as core ones. It must also be emphasized that the terms confidence, opportunity, nations, child, Americans, actions, money, Panama, justice, organizations, Mexico, and others surround core terms. This, in turn, suggests that these terms are kind of central in the inaugural address, but not as central as core ones. It is interesting to note that the terms inflation, Obama, mandate, dream, China, families, hope, destiny, life, history, freedom, government, and others turn up at the edges. We take this fact as suggesting that these are not as

important as core terms and less core terms. It is vital that Trump's government is likely to do tasks relevant to core terms first. After this, he is likely to do tasks relevant to less core terms. It seems thus reasonable to conclude that Trump's government is likely to manage to do tasks relevant to the words peace, boarders, children, outpouring, overspending, opponents, emergency, nation, and administration.

Cluster Analysis : This section is devoted to presenting a cluster that refers to a group with similarities. Python produced a lot of words with similarities, but we include only the part of them for the reason of space limitations. More interestingly, the so-called cluster is different from topics in that it is somewhat looser than topics. More specifically, keywords are supposed to constitute topics, which, in turn, are made up of a document. Here the cluster is dubbed as a cohesive group with similarities. Terms that belong to a group are co-related or interrelated in the inaugural address:

Table 2 A Cluster

Cluster 1
act actions administration admiration advantage adventure age agenda alien aliens ambition americaas american americans americas amount amounts ancestors angeles anything applause aspect astronauts atom auto automobiles autoworkers awe battles beforenext beforewe betrayal betrayals biden billions black bless border borders brand builders building bullet bush businessman cabinet call campaign canal canalwe cannot cant car carolina cartels cases catalogue catch cause censorship challenge challenges chance change chicago chief child children china choicewe cities citizens civilizationso clinton closeamericans coal colonies color comeback commander communism communities compassion competence competency confidence constitution continent costs countries country courage court covid cowboys crime criminals crisis dangers day dc deal decline defeating defense democracy department deserts destiny dignity disaster disease disposal disrepairwe dream drill duties duty earth east edge education effectiveness efficiency efforts election electricity element emergency enemies energy enforcement entrepreneurs entry envy era establishment events everybody everyone everything excellence executive expectations experiments explorers expression external factory fails faith families family farmers fascism feet female field fires first flag forces form freedom freedomthey freethe frontier funding future gangs gas gender genders generations gift god gold goodwill government group gulf hand harris health hearts heavens heights help highways hispanic history historys home honor hope horizonsand hostages houses houston hurricane increases individuals industry inflation innovators institutions integrity invasion invasions ive january johnson journey justice justices knowledge land law leadership legacy level liberation liberties life lifeblood lifejust lives los lot love loyalty luther magnificent male mandate manufacturing mars martin mckinley members men message mexico miami middle miles millions miners mission moment momentum money months mount mountains my name national nationamericans nations nationwe navyand networks never new no nobody north nothing obama obstacle office officers oil one opponents opportunity order orders organizations ourselves outpouring overhaul overspending palm panama panamas parent patriots pay peace peacemaker pennsylvania people philadelphia phoenix pillars pioneers place places planet plant pledge policy poverty power powers practice presence presidency prices pride pridetogether priority prisons process project promise proof prosperity protection proudest purpose pursuit race railroads rate reality reason records release religion remain republic reserves responsibility restoration restore revenue revenues revolution rights roberts roosevelt rule scales senator sense series service services shape ships skyscrapers so society soil soldiers

It is particularly noteworthy that these terms cluster together, which, in turn, consist of a document (the inaugural address). A topic is the representative one of keywords, but a cluster refers to grouping the relevant keywords. In this respect, topics and clusters depart from each other.

Topic Probability Analysis : The goal of this section is to probe into the probability for key terms to become main topics. Python generated the probability for many terms to be main topics. We provide them in descending order of probability:

Table 3 The Probability of Main Topics

Number	Term	Probability
1	nation	0.015
2	America	0.013
3	country	0.011
4	today	0.009
5	President	0.008

6	government	0.008
7	citizens	0.008
8	world	0.007
9	Panama	0.005
10	power	0.005
11	dream	0.004
12	money	0.004
13	crisis	0.004
14	law	0.004

Particularly noteworthy is that the term nation has the highest probability of being a main topic. More specifically, it has the probability of 1.5% (the highest among all the keywords). It is worthwhile to consider the term America. Quite interestingly, it ranks second, with the probability of 1.3%. From all of this, it seems clear that the terms nation and America were the most mentioned ones in the augural address, thereby counting as core terms. It is worthwhile noting, on the other hand, that the term country ranks third, with the probability of 1.1%, hence being deemed to be the third most mentioned one in the augural address. It is interesting to note that the term country is followed by the term today. This, in turn, suggests that it ranks fourth, with the probability of 0.9%, thus being considered as less pivotal, compared to the term nation. It therefore seems reasonable to assume that the term nation has the highest probability to become a main topic, closely followed by the term America, the term country, and the term today, in descending order. It is vital that the term Panama ranks ninth, with the probability of 0.5%. It must be noted, on the other hand, that the term money has the eleventh highest probability to become a main topic. We thus conclude that the term nation has the highest possibility to be a main topic, with the probability of 1.5%.

Similarity Analysis : This section is focused on inquiring into terms that are related to the term America. Python produced 10 words that are the closest to the term America. We provide them in descending order of probability:

Table 4 The Similarity between Words

Number	Word	Word	Probability
1	America	crisis	0.20776429772377014
2	America	hope	0.1995553821325302
3	America	God	0.19619926810264587
4	America	angeles	0.19144853949546814
5	America	destiny	0.1898762732744217
6	America	vote	0.1806427240371704
7	America	autoworkers	0.17458827793598175
8	America	religion	0.17408114671707153
9	America	children	0.17254497110843658
10	America	day	0.16760733723640442

It is worthwhile noting that the term America is closest to the term crisis, with the probability of 20.77%. This seems to suggest that Trump judged the current state of America as a crisis. It is interesting to observe that America and hope have the second highest similarity, with the probability of 19.95%. This seems to indicate that at the same time, Trump believes that there is also a hope in America even though America is in a lot of trouble. What is interesting is that the similarity between America and God is the third highest, with the probability of 19.61%. Perhaps it is worthwhile saying that America and angels have the fourth highest similarity, with the probability of 19.14%. From all of this, it is clear that Trump believes that God and angels protect America. It is appropriate to mention, on the other hand, that the term America is also close to the term destiny, with the probability of 18.98%. It therefore seems reasonable to conclude that the terms America and crisis have the highest similarity, closely followed by America and hope, America and God, America and angels, and America and destiny, in that order.

Sentiment Analysis : This section focuses on conducting sentiment analysis through which we attempt to evaluate Trump's thoughts on America. To begin with, we attempt to classify terms into positive ones and negative ones. After this, we multiply them by their frequency, thereby obtaining the score of each term. Let us have a look at Table 5:

Table 5 Sentiment Analysis

Number	Word	Frequency	Score (Positive or Negative)
1	Panama	5	-5
2	crisis	4	-4
3	dream	4	+4
4	God	4	+4
5	money	4	-4
6	success	4	+4
7	emergency	3	-3
8	wealth	3	+3
9	angels	3	+3
10	border	2	-2
11	borders	2	-2
12	China	2	-2
13	confidence	2	+2
14	courage	2	+2
15	enemies	2	-2
16	hope	2	+2
17	inflation	2	-2
18	Mexico	2	-2
19	patriots	2	+2
20	peacemaker	2	+2
21	pioneers	2	+2
22	tariffs	2	-2
23	victory	2	+2
24	violent	2	-2
25	opponents	1	-1
26	opportunity	1	+1
27	overspending	1	-1
28	Panamas	1	-1
29	peace	1	+1

It is interesting to point out that Trump's inaugural address has 29 positive terms, while it has 35 negative terms. We multiplied each term by its frequency, hence obtaining the score of each term. Most importantly, we obtained the score of +29 with respect to the total positive terms, while we obtained the score of -35 with respect to the total negative terms. This seems to suggest that President Trump think of the current state of America as somewhat pessimistic even though America is one of the richest and most advanced countries in the world. It seems thus reasonable to conclude that there may be a trade dispute between America and other countries since he believes that past trade agreements have been disadvantageous to the U.S., leading to job losses and the offshoring of manufacturing. For further insights into text analysis, see Blei, D. M., Ng, A. Y., & Lafferty, J. D. (2003), Grimmer, J., & Stewart, B. M. (2013), Hochschild, J. L., & Einstein, K. L. (2015), Jockers, M. L. (2013), and Feldman, R., & Sanger, J. (2007).

IV. CONCLUSION

To summarize, we have provided seven in-depth text analyses with respect to President Trump's inaugural address, which was delivered in January 2025. It is interesting to note that the term nation was the most mentioned one, closely followed by the term America, the term country, thank you, the term Panama, and the term crisis, in that order. It is also worth pointing out that the topic nation is the most pivotal one, closely followed by the topic America, the topic country, the term thank, and the topic government, in that order. It must be emphasized that the terms peace, boarders, children, outpouring, overspending, opponents, emergency, nation, administration, and others show up centrally in the map. This, in turn, implies that these keywords count as the most pivotal ones as well as the most noteworthy ones, thereby being regarded as core ones. It is vital that Trump's government is likely to do tasks relevant to core terms first. It must be stressed, on the other hand, that the term nation has the highest possibility to be a main topic, with the probability of 1.5%. It is also important to mention that Trump's inaugural address has 29 positive terms, while it has 35 negative terms. Most importantly, we obtained the score of +29 with respect to the total positive terms, while we obtained the score of -35 with

respect to the total negative terms. This seems to suggest that President Trump views the current state of America as somewhat pessimistic, despite the fact that America is the richest and most advanced country. The linguistic significance of our research is that seven different analyses have provided us with the real picture of what President Trump is thinking about at this moment. Furthermore, sentiment analysis makes it easier to assess President Trump's thoughts on America and the world.

REFERENCES

1. Blei, D. M., Ng, A. Y., & Lafferty, J. D. (2003). Latent Dirichlet Allocation. Journal of Machine Learning Research, 3, 993-1022.
2. Grimmer, J., & Stewart, B. M. (2013). Text as Data: The Promise and Pitfalls of Automatic Content Analysis Methods for Political Texts. Political Analysis, 21(3), 267-297.
3. Hochschild, J. L., & Einstein, K. L. (2015). Do Facts Matter? Information and Misinformation in American Politics. Political Science Quarterly, 130(4), 707-731.
4. Jockers, M. L. (2013). Text Analysis with R for Students of Literature. Springer.
5. Feldman, R., & Sanger, J. (2007). The Text Mining Handbook: Advanced Approaches in Analyzing Unstructured Data. Cambridge University Press.