

BA
Experiment 8

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Aim: To perform Text Analysis in SAS

Theory:

Text analysis is the process of using computer systems to read and understand human-written text for business insights. Text analysis software can independently classify, sort, and extract information from text to identify patterns, relationships, sentiments, and other actionable knowledge.

SAS is a reliable tool for analysing text data source.

Analyzing a text data source in SAS (Statistical Analysis System) involves several steps. Here's a brief overview of the process:

Import the text data: The first step is to import the text data into SAS. You can use the nfile statement to read the text data from a file, or use the import procedure to import data from a database.

Data cleaning: Text data often contains noise or unwanted characters, which need to be removed. You can use SAS functions like compress and substr to remove unwanted characters.

Text preprocessing: Text data needs to be preprocessed before it can be analyzed. This involves converting text to lowercase, removing stopwords (common words like "the" and "and"), stemming (reducing words to their root form), and tokenizing (breaking text into individual words or phrases).

Text analysis: Once the text data has been preprocessed, you can perform various analyses. For example, you can count the frequency of individual words, calculate the sentiment of the text (positive, negative or neutral), or perform topic modeling to identify the main themes in the text.

Visualization: Finally, you can use SAS to create visualizations of your text data analysis. SAS provides various tools for creating charts and graphs that help to summarize and communicate your findings.

exp88 Topics

Run mode Close

Topics (11)

Topic	Created by	Documents
+card, +credit card, +credit, +charge, +purchase	System	400
+debt, +call, +say, n.t, +number	System	392
xx, xxxx, +letter, +escrow, +receive	System	379
+modification, +loan, +loan modification, +mortgage, +home	System	348
+debt, +identity, +letter, +theft, +information	System	328
+check, +account, +check, +deposit, +money	System	317
+report, +credit, +credit report, +report, +debt	System	307
+late, +late fee, +payment, +fee, +day	System	289
+interest, +rate, +interest rate, +balance, +loan	System	273
+fee, +overdraft, +charge, +overdraft fee, +account	System	265

Terms

All (4588) Matched Filter

Term	Role	Documents	Frequency
xxxx	PN	2148	26336
not	ADV	1784	5336
bank	PN	1381	3779
account	N	1102	3516
bank	N	1416	3505
xx	PN	495	3002
payment	N	885	2820
credit	N	949	2549
loan	N	740	2336
tell	V	940	1984

Documents

All (2413) Matched Search

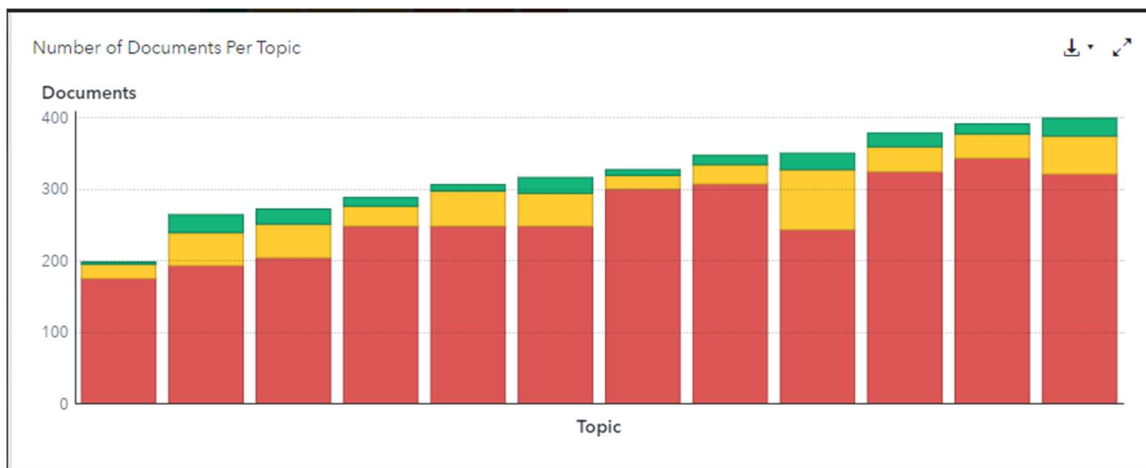
Consumer_complaint_narrative

Sentiment

I live paycheck to paycheck. I check my bank account balance daily if not XXXX a day. The bank I use, Bank B offers online and text banking so it makes it very convenient. The problem is they do not match up. Some of the dates that transaction posts change. For example on XXXX night, the XXXX, I checked my balance through text banking. I had (\$380.00) in my account. The next morning, XXXX the XXXX, when I got to work at XXXX I went online and checked my balance and transactions. It still said I had a balance of (\$380.00). At this point I realized I still had XXXX checks outstanding and I needed to transfer money from my savings. I transferred (\$1200.00)...

I have been attempting to rectify the situation with Bank A by calling various executives including the Assistant General Counsel to no avail. After further review of my account I located (\$490.00) worth of bank fees on XXXX account alone within the last month. All of these were based off of Bank A allowing electronic payments to post and then charging my account a bank fee. The most recent fee was for a (\$7.00) charge that they returned to a vendor that last month they choose to pay as a courtesy " when the transaction was for well over (\$100.00) and the account was overdrawn for a lot more than it was when they returned the (\$7.00) transaction. When I asked...

I have a checking account at Bank D. When I wrote a check of (\$1000.00) to XXXX XXXX for paying my rent (for my wife, XXXX XXXX 's rent in XXXX on XXXX/XXXX/XXXX, somebody named XXXX XXXX, instead of XXXX XXXX, cashed the check to her own Bank D account by wiping out the recipient 's name (XXXX XXXX) and put her name on the check. Bank D did not look carefully for the payee authenticity and paid the money to that person (XXXX XXXX). I filed a clam to Bank D for (\$1000.00) on XX/XX/XXXX. Bank D Representative in that office told me that the check was deposited in a Bank D account, I would be easy for them to find the theft since they...



Conclusion:

Thus, SAS provides a comprehensive set of tools for analyzing text data, including data cleaning, preprocessing, analysis and visualization.