

Analysis of Unstructured Data: Applications of Text Analytics and Sentiment Mining

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ABSTRACT

The proliferation of textual data in business is overwhelming. Unstructured textual data is being constantly generated via call center logs, emails, documents on the web, blogs, tweets, customer comments, customer reviews, and so on. While the amount of textual data is increasing rapidly, businesses' ability to summarize, understand, and make sense of such data for making better business decisions remain challenging. This paper takes a quick look at how to organize and analyze textual data for extracting insightful customer intelligence from a large collection of documents and for using such information to improve business operations and performance. Multiple business applications of case studies using real data that demonstrate applications of text analytics and sentiment mining using SAS® Text Miner and SAS® Sentiment Analysis Studio are presented. While SAS® products are used as tools for demonstration only, the topics and theories covered are generic (not tool specific).

INTRODUCTION

The opportunity cost of any business to ignore unstructured data is paramount in today's fierce competitive world. According to an IDC survey, unstructured data takes a lion's share in digital space and approximately occupies 80% by volume compared to only 20 for structured data. While the unstructured data is available in abundance, the number of software products and solutions that can accurately analyze the text, present insights in an understandable manner along with the ability to integrate such insights readily into other extant models that use numerical only data are rare. A lot of the challenges in this space arise from the fact that natural language provides the flexibility to convey exactly the same meaning in umpteen different ways, or worse, exactly the same statement in a different context may convey completely different meaning. Machine learning algorithms designed to analyze numerical data exactly know the structure of numbers and they are pre-programmed to process the data with precision. In case of natural language, it gets very problematic. Dialects, jargon, misspellings, short forms, acronyms, colloquialism, grammatical complexities, mixing one or more languages in the same text are just some of the fundamental problems unstructured data poses. It makes extremely difficult to precisely analyze unstructured data in the same way we process structured data. SAS® Text Analytics tools provide text analysis capabilities which are at par or better with the other software available in the industry. Perhaps most importantly, SAS® Text Miner being part of the SAS® Enterprise Miner Suite, offers the ability to seamlessly integrate and use text analysis results along with analysis of numeric data only.

Using SAS® Text Analytics tools, we can collect unstructured data from wide variety of data sources and prepare it for analysis. Unstructured data can be found in databases, individual files (.txt, .xml, .doc, .xls etc.) on file systems, and websites. Chakraborty et al. (2013) in their recently published SAS® press book

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