IFI 9000 Analytics Methods Text Representation and Applications

by Houping Xiao

Spring 2021



H. Xiao (IFI@GSU) Text Mining Spring 2021 1/13

Introduction

Over 80% of real-world data is unstructured



Introduction

Turn unstructured into structured data



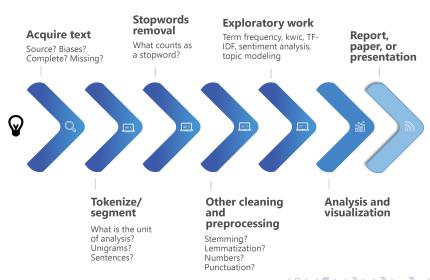
Introduction

• Turn unstructured into structured data



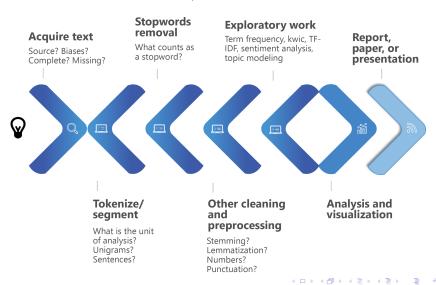
Text mining

• The well-known text mining/NLP pipeline



Text mining

• The well-known text mining/NLP pipeline



Text mining

 Your (text) analysis is only as good as your cleaning and preprocessing choices



A petition from change.org

Close Georgia State University campuses - Switch to online classes until further notice



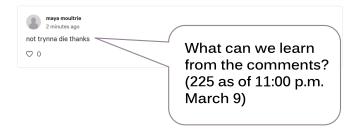
7,731 have signed. Let's get to 10,000!

- A petition from change.org
 - Downtown campuses and other campuses of Georgia State University throughout Georgia pose a great risk of infection/transmission of the Coronavirus to both the students and the staff. Close the campuses and offer online classes for all classes and the staff until further notice to ensure the safety of all GSU members.
 - Getting infected with the virus puts families at risk. The downtown campus is located next to a hospital and surrounded by people.
 Keeping the school open is reckless and is bound to spread the virus unnecessarily. Classes can be offered online and should be for our safety. I do not want to get my family sick and neither do any other students.
 - The professors and students on campus are at great risk of exposure as GSU hosts numerous commuters from all over Georgia. It is time to be proactive and assume that the lack of testing does not mean a lack of cases. They are out there around us, and they are spreading the virus.

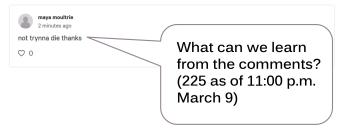
- A petition from change.org
- Our goal: reasons for singing
 - See why other supporters are signing, why this petition is important to them, and share your reason for singing (this will mean a lot to the starter of the petition).



- A petition from change.org
- Our goal: reasons for singing
 - See why other supporters are signing, why this petition is important to them, and share your reason for singing (this will mean a lot to the starter of the petition).



- A petition from change.org
- Our goal: reasons for singing
 - See why other supporters are signing, why this petition is important to them, and share your reason for singing (this will mean a lot to the starter of the petition).



- On iCollege: codes and data files
 - text_comments.csv
 - text.R or text.ipynb

The End

H. Xiao (IFI@GSU) Text Mining Spring 2021 13/1: