

A3 Assignment

## GLOBAL AMBASSADOR BIOS

**NLP INSIGHTS AND ANALYSIS** 

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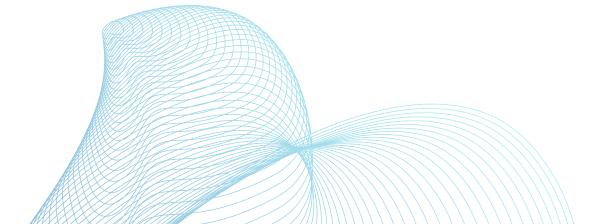


## For prospective students to learn more about the program and eventually enroll.

need to ensure the biographies of the student ambassadors do not show bias towards campuses, topics

ensure the showcased ambassadors present a welcoming diverse and inclusive learning atmosphere

Ensure the language used is consistent showing no meaningfully discriminatory biases in selecting the identified ambassadors

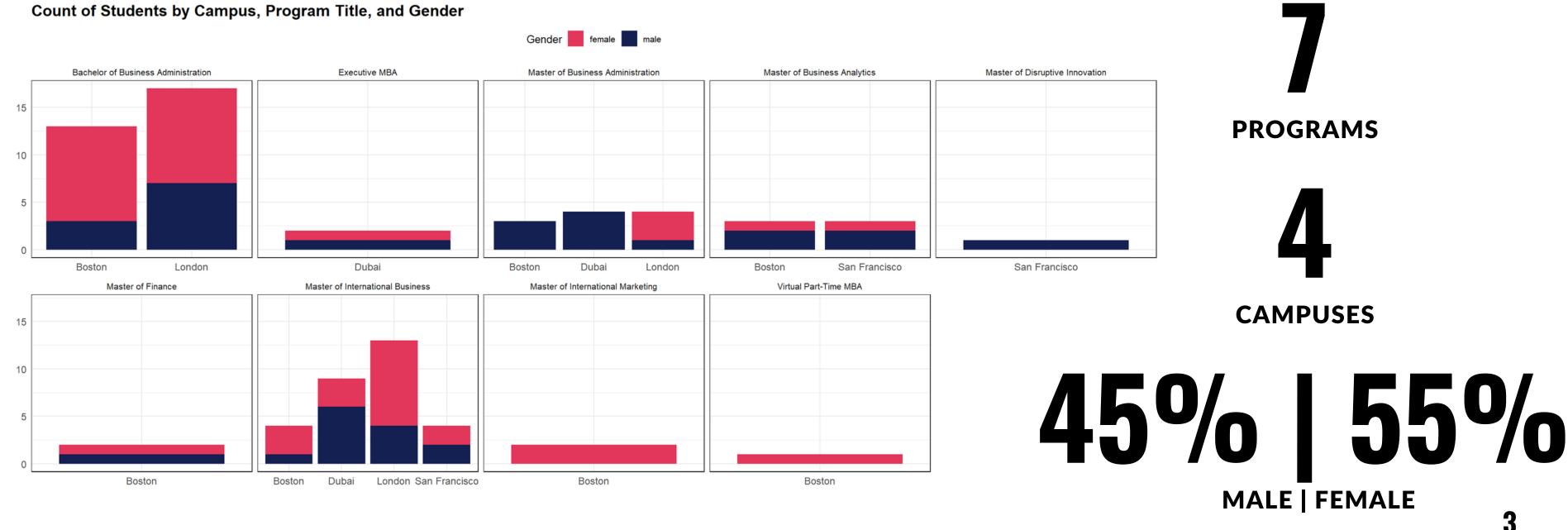


### DATA OVERVIEW

Description of the data set used and preparation

web-scraped data of Global Ambassadors posts directly from the university site

**AMBASSADORS** 



## THE PROCESS

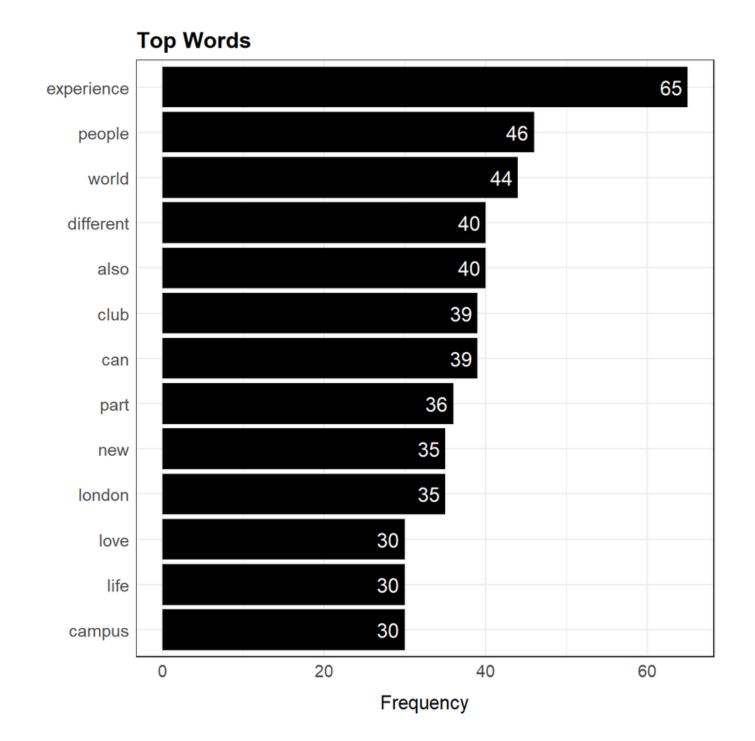


Focus on Bios and Interests across campuses, programs and genders



Key highlights from EDA

#### Highlighting top words from all bios based on frequency



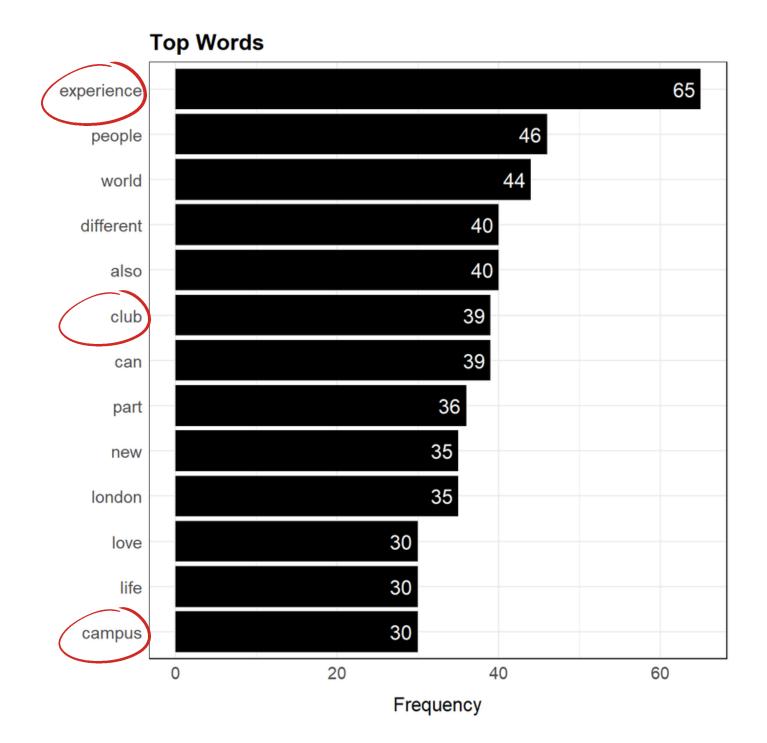
Cleaning the data

&

Identifying Top words by frequency

Key highlights from EDA

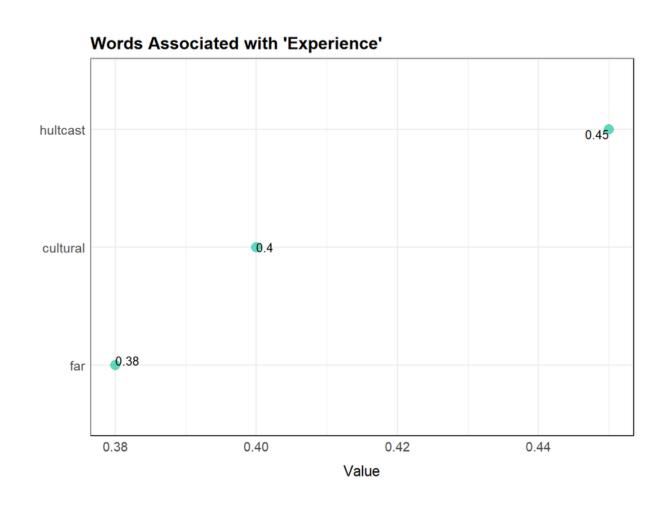
#### Highlighting top words from all bios based on frequency

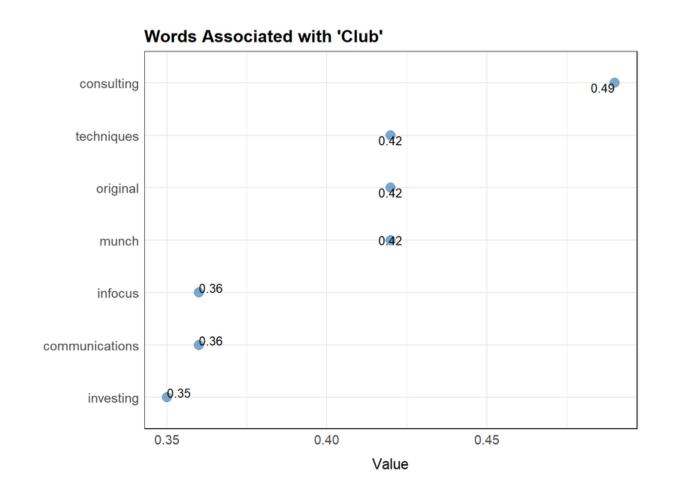


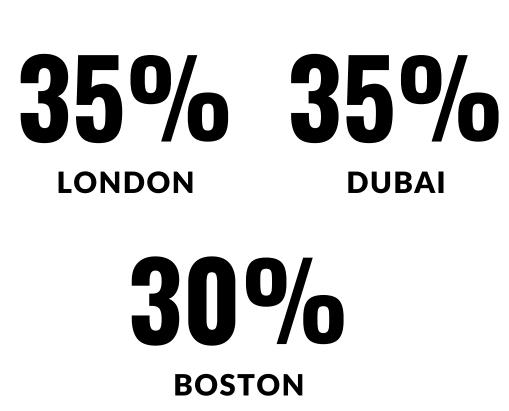


Key highlights from EDA

#### Inspecting word association with some of the most frequent words











'Campus'

Key highlights from EDA

Highlighting bi-grams for richer context

Engaged

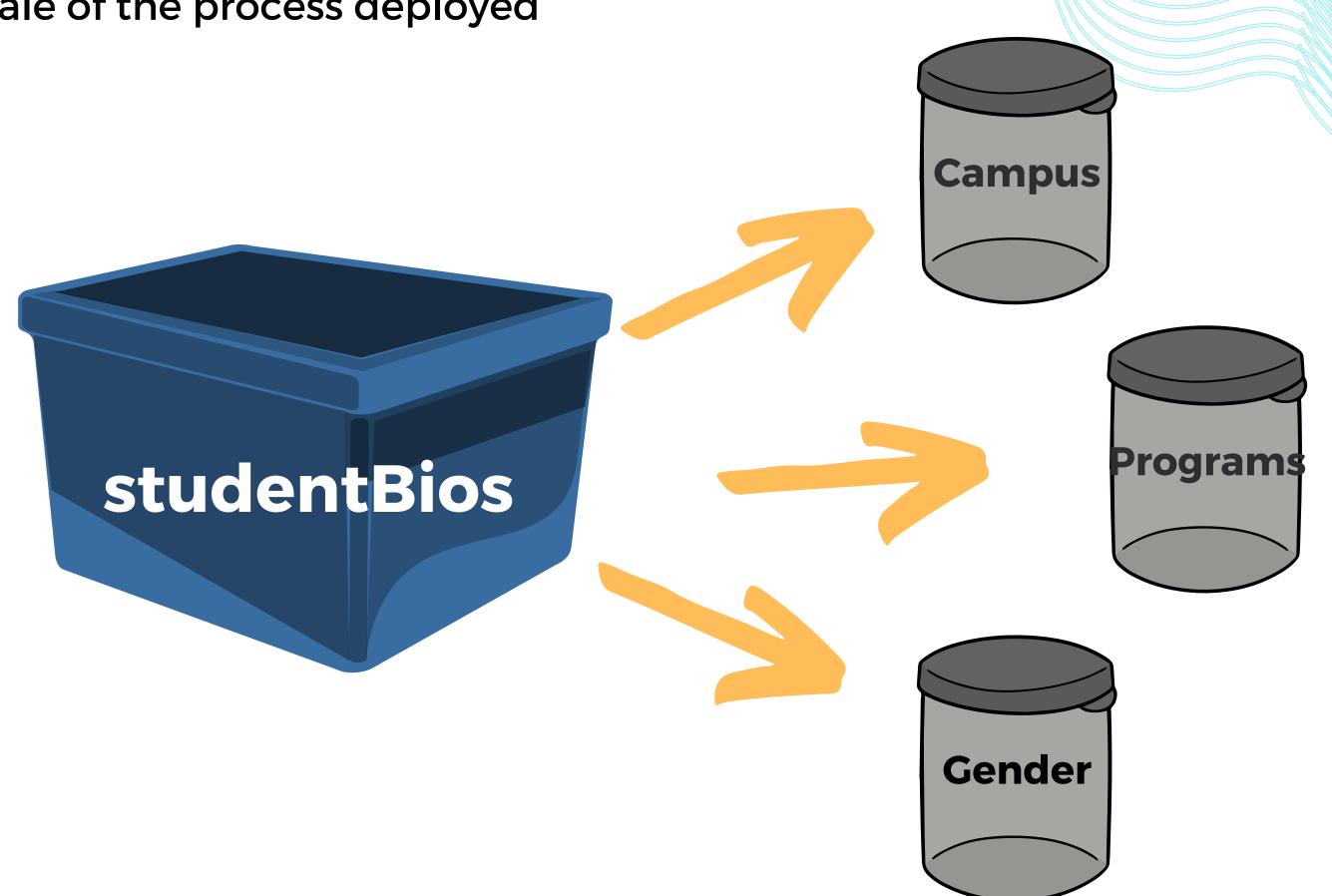
Inviting

Inclusive



## **TEXTANALYSIS**

Rationale of the process deployed



## SENTIMENT ANALYSIS

Overview of the methods employed

#### Three most popular methods

## AFINN- Dutch researcher Words scored -5 to 5

#### Bing- U of I-Chi Researcher

Words scored Pos/Neg

#### NRC – mTurk

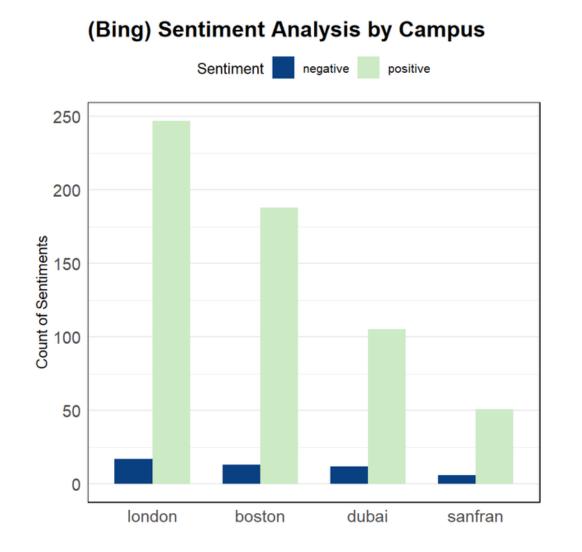
Words classified into 8 primary & pos/neg

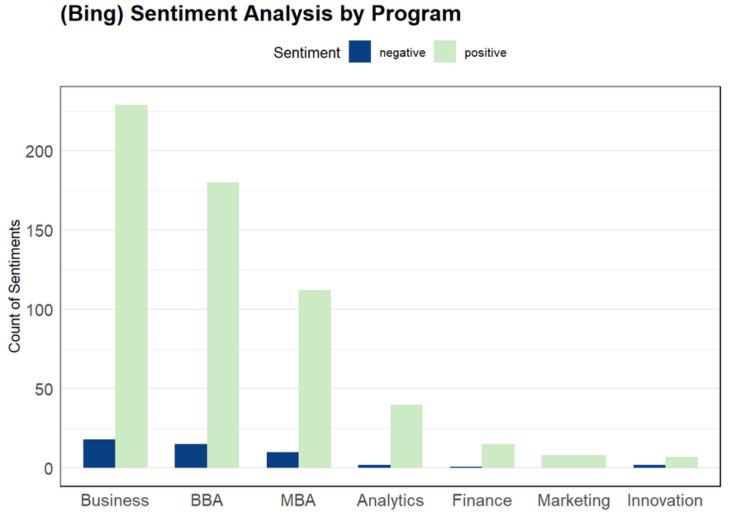
```
> head(nrc)
# A tibble: 6 x 2
       word sentiment
      <chr>
                <chr>
     abacus
                trust
    abandon
                 fear
    abandon negative
              sadness
    abandon
5 abandoned
                anger
6 abandoned
                 fear
```

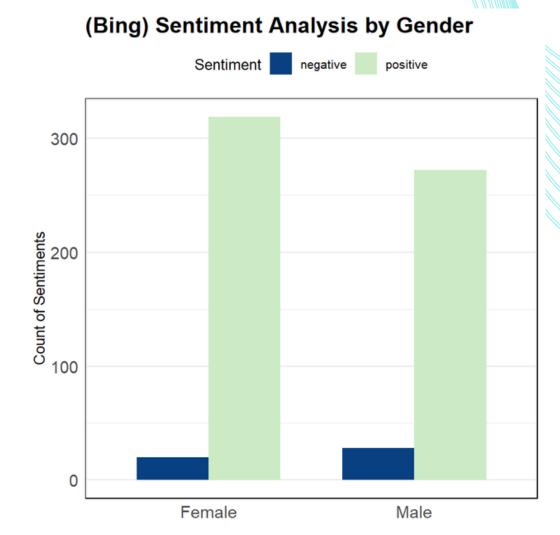
## SENTIMENT ANALYSIS

Overall Positive across channels

#### Bing



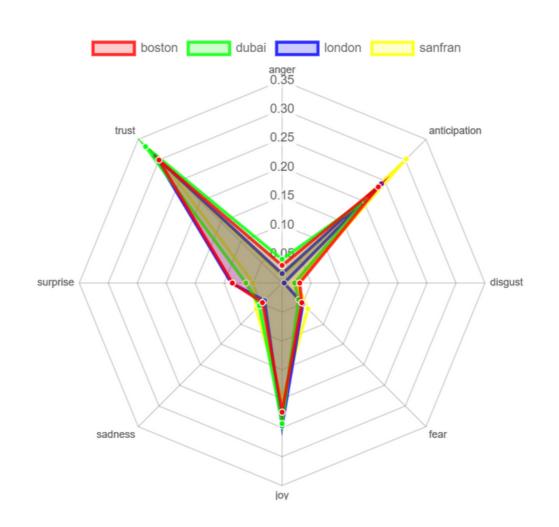




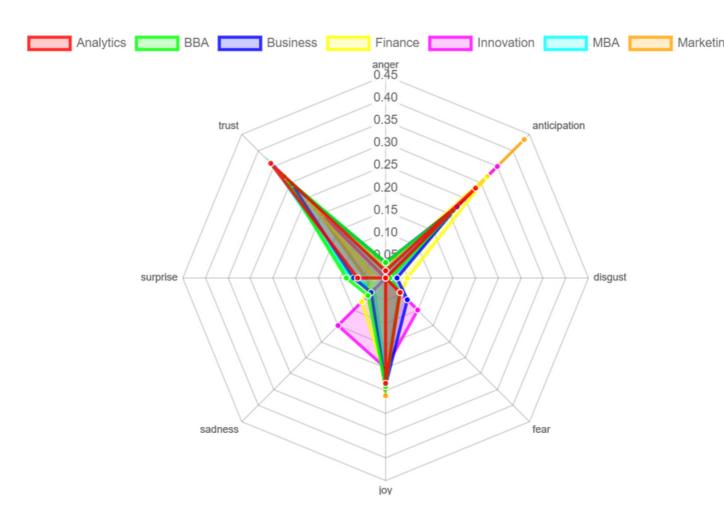
## **EMOTION ANALYSIS**

Overall Positive across channels

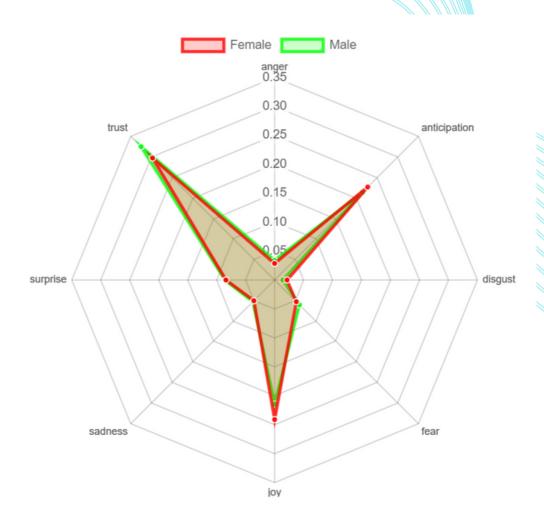
#### **NRC Emotion Lexicon**







JOY



**ANTICIPATION** 

## COMMONALITY CLOUD

Assesing common words across subsets





## Campus

### Gender

## COMPARISON CLOUD

#### Assesing common words across subsets

**CHU OPI CHOULSHIP** 

```
helps education
                                                                           boston
                         learned cooperative
                        practical
               networkingjourney traveling
           interested completed backgrounds
    activities german national french knowledge island shanghai germany
  marketing china meeting many active hamburgyears etc
    become<sub>teams</sub> tahiti looking interests
   friendsmoved sportsdual degree
 pursue belgiumperson forward
much made mannheim france san skills dancing
          development studying boston lets
          ate hearing italy francisco soc culture global ive ondon
   corporate hearing
          managerial
           whether of experienceknow advertising size also like free came
                        ∃ choice sales came
                          mba questions
                      background
                                  home 2º
                             companies
```

dubai

development started including knowledge ng strong diverse pursuing sales journey japan sales professional professional digital share united start soccer travelglobal footballalso skills boston dubai time favorite gain video hults borninvestments bachelorsevery different part culture connect reason coming meeting new love life philippines place project taking many learn ever london people world passionate questions just pyearhelp empowerher of the person sustainability brazilian living feel wyearsoriginally like opportunity like opportunity film something learning france sharing degree backgrounds

## KEY TAKEAWAYS

Impactful strategies for attracting new students

## INCLUSIVE COMMUNITY



## TAILORED MESSAGING



ENHANCE
ONLINE
PRESENCE

# THANK YOU

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