

Online Social Network Analysis

Brand Reputation Calculator

Jiranun Jiratrakanvong
A20337992

Miguel Menendez Alvarez
A20363536

Problem

All the brands want to know its reputation in the social networks

Why?

- ❖ Advertising campaigns
- ❖ Service problems, incidences, etc.
- ❖ Regular reputation

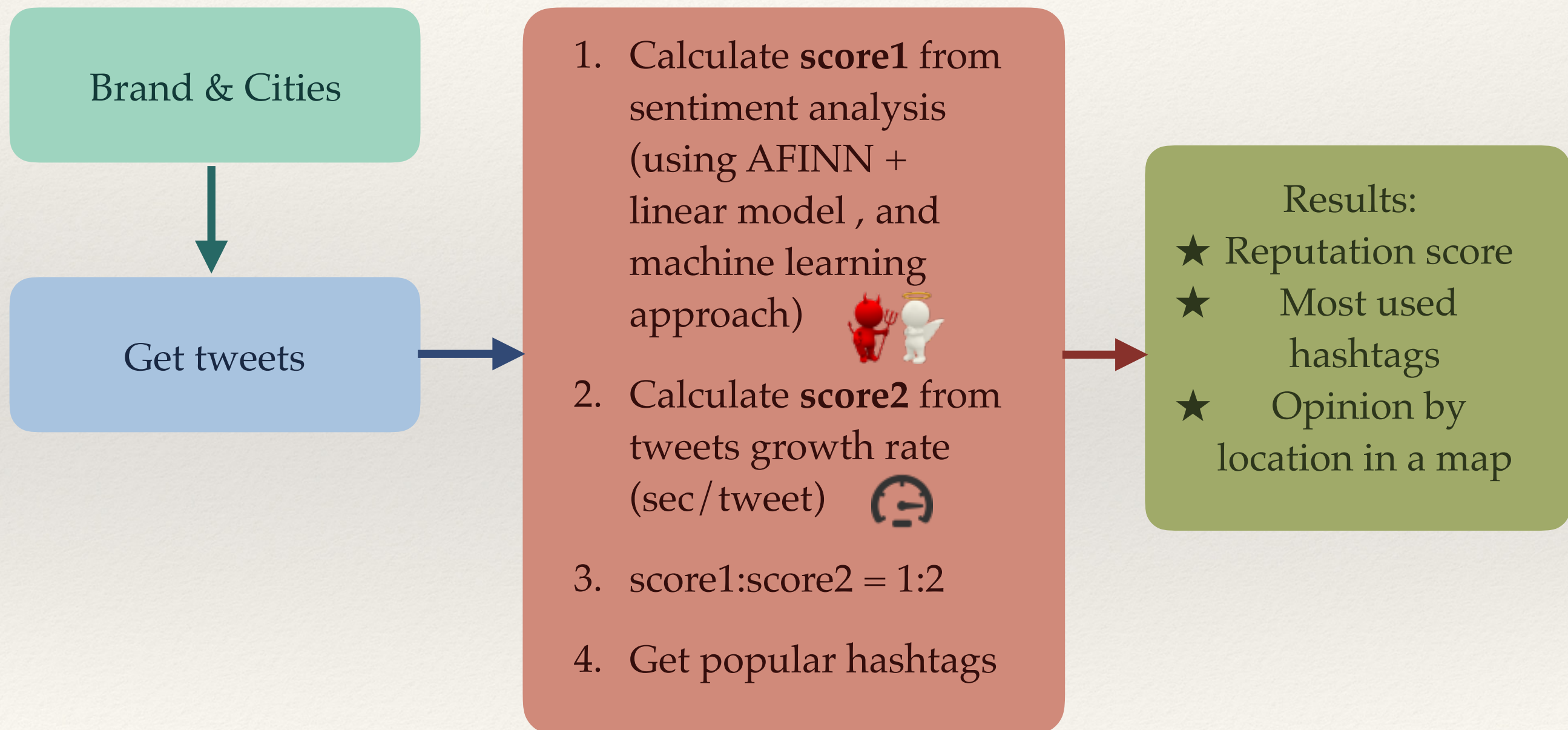


MEANWHILE AT THE VW TESTING FACILITY.....



ANOTHER PASS!

Approach



Data

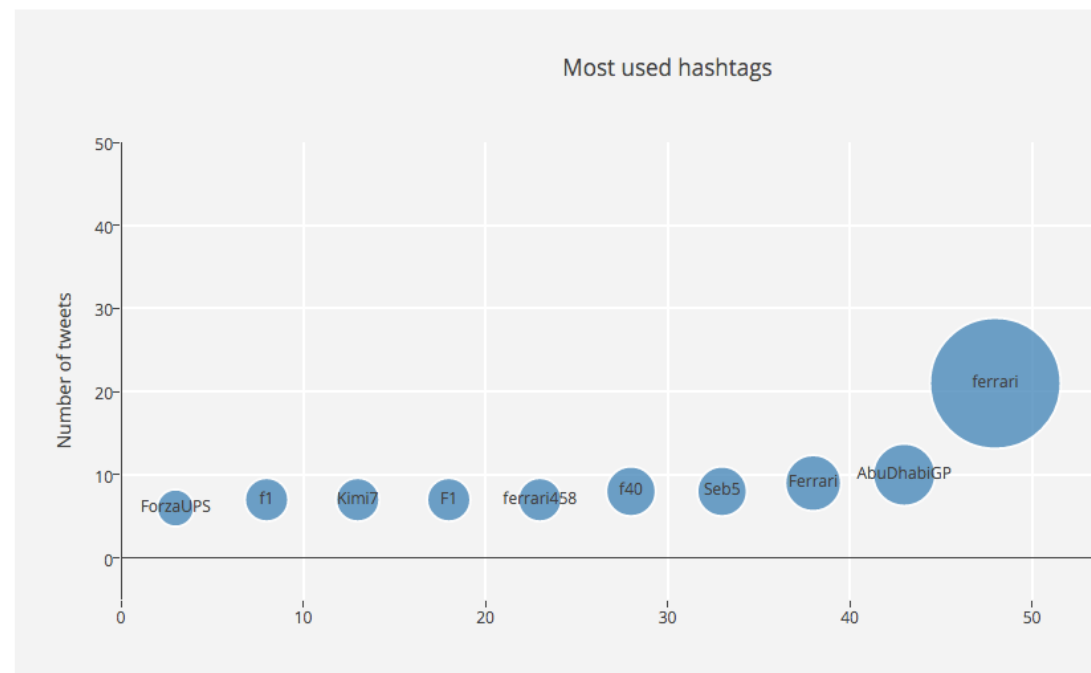
- ❖ Training data for sentiment analysis:
 - ✦ 504 tweets: 253 pos., 251 neg.
- ❖ Coordinates of the cities (Geopy) to make a request of located tweets
- ❖ Using tweets created time to calculate growth rate
- ❖ Most used hashtags (top 10)
- ❖ Using at least 100 tweets to compute reputation

Results

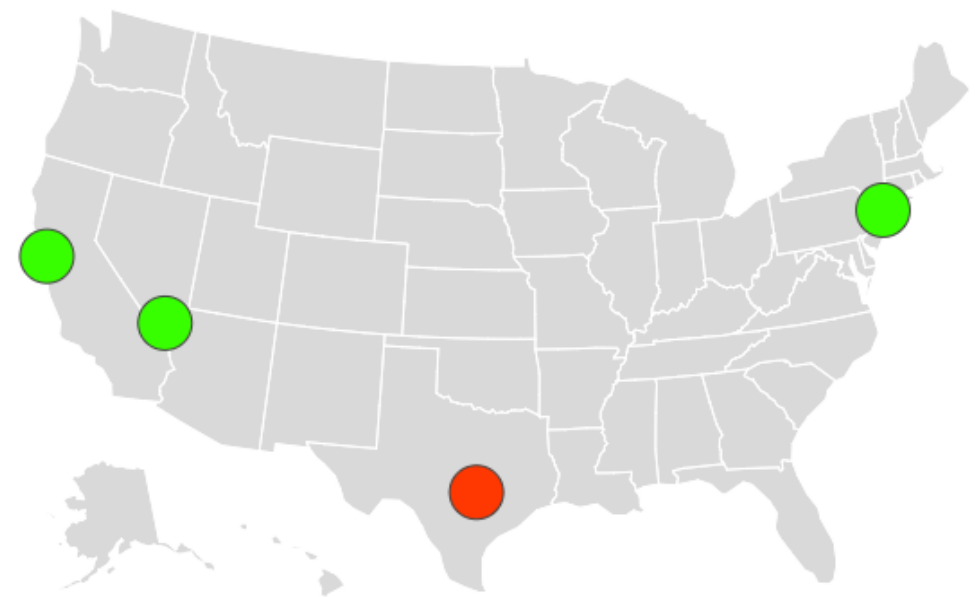
- ❖ Sentiment Analysis of tweets: ~76% accurate (Cross validation)
- ❖ Reputation score: ~ 75% accurate
www.reputationinstitute.com

Reputation score for ferrari:

8835.61/10000 points



Reputation by city



Conclusion

- ❖ It's hard to label data manually because there are many advertising tweets
- ❖ Data mining is not only about huge processing tasks but about interpretation of data
- ❖ Early detection of located problems is a big issue for the brands