TWITTER DATA ANALYSIS

PROJECT NO. 4A

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TIME FOR EACH FUNCTION

- Number of talkers : 31ms
- Retweet : 88ms
- Hashtag : 23ms
- Location : 48ms
- Sentiment : 200ms
- Topics : 1029ms
- Image Recognition : 10707ms
- Total time in analyzing 1 tweet : 12126msec

COMPATIBILITY

- RAM : 6 GB
- Browser : Google chrome, Mozilla Firefox, Internet Explorer
- Internet minimum speed : 169 Bytes
- Hard disk : 2TB
- Minimum speed and Hard disk calculation has shown in next slides

CALCULATIONS FOR ONE TWEET

Time to Download one tweet

- 1000 tweet -> 24639ms
- 1 tweet -> 24.639ms

The average speed of the internet is 0.60Mbps

- 1 sec = 6,291,45.60 bit
- 1 sec = 7,864,3.20 Bytes
- Size of one tweet = 24.639 * 10^-3 * 78643.2 Bytes
- Size of one tweet in KB = 2KB

CALCULATIONS FOR HARD DISK

- If we have 2TB hard disk then how much tweet it can store and the size of one tweet is 2KB.
- Total tweet in Hard disk = (2*1024*1024*1024*1024) / (2*1024)

  = 1,000,000,000.
- So we are analyzing 1 tweet in 12126msec but in the same time we are downloading 12102ms / 24ms which is 504 tweets
- So this Hard disk can be fill in 231days

MINIMUM INTERNET SPEED

- I can analysis one tweet in 12126ms so if I can download only one tweet within this time then also there is no problem
- At least 2KB need to be download in 12126ms
- 1sec = 2*1024/12.126

  = 169 Bytes/sec
- Therefore, at least 169 Bytes/sec is require to run this properly from internet point of view

ACCURACY

- For image Recognition, we took 20 sample images
- If score >= 20%
- Then Accuracy = 0.35
- If score >= 40%
- Then accuracy = 0.55
- If score >=50%
- Then accuracy = 0.85


Thank
you