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1 Each colom represent mean

Column	Mean	remark
F	ranking	
G	Chinese origin data	
H	Google translated data	
I	Baidu Chinese sentiment analysis positive probability	base on Chinese origin data
J	Baidu Chinese sentiment analysis confidence	base on Chinese origin data
K	Baidu Chinese sentiment analysis Negative probability	base on Chinese origin data
L	Baidu Chinese sentiment analysis the category	base on Chinese origin data
M	Baidu English sentiment analysis positive probability	base on Google translated data
N	Baidu English sentiment analysis confidence	base on Google translated data
O	Baidu English sentiment analysis Negative probability	base on Google translated data
P	Baidu English sentiment analysis the category	base on Google translated data
Q	Google Chinese sentiment analysis score	base on Chinese origin data
R	Google Chinese sentiment analysis manitude	base on Chinese origin data
S	Google English sentiment analysis score	base on Google translated data
T	Google English sentiment analysis manitude	base on Google translated data
U	Yandex translated data	base on Chinese origin data
V	Google English sentiment analysis score	base on Yandex translated data
W	Google English sentiment analysis manitude	base on Yandex translated data
X	Baidu translated data	
Y	Google English sentiment analysis score	base on Baidu translated data
Z	Google English sentiment analysis manitude	base on Baidu translated data
AA	Baidu English sentiment analysis postitive probability	base on baidu translated data
AB	Baidu English sentiment analysis confidence	base on baidu translated data
AC	Baidu English sentiment analysis Negative probability	base on baidu translated data
AD	Baidu English sentiment analysis the category	base on baidu translated data

1.1 note

- Baidu sentiment analysis Category Note

– 2 mean to belong to the positive category, 1 mean to belong to the

neutral category, and 0 mean to belong to the Negative category

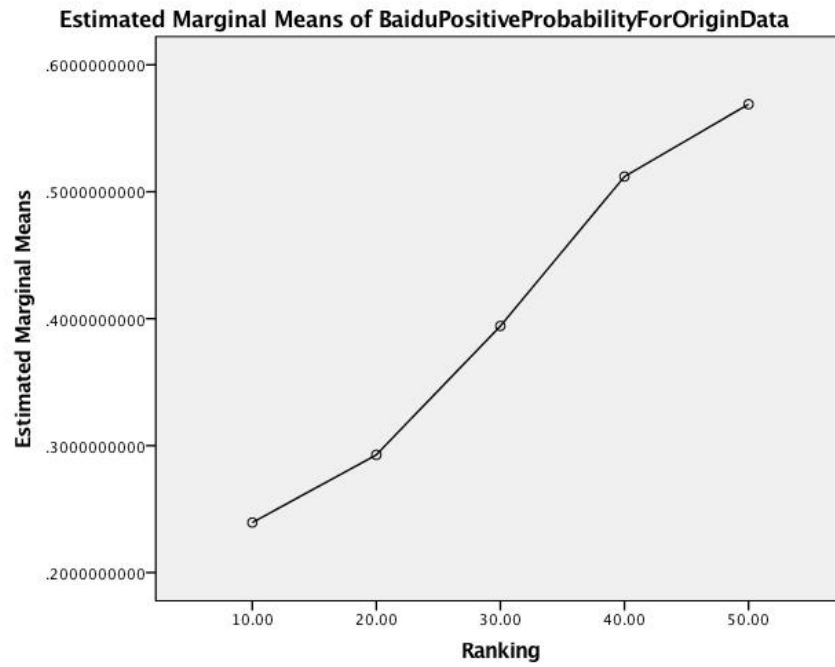
- Google sentiment analysis Note
 - The score of a document’s sentiment indicates the overall emotion of a document. The magnitude of a document’s sentiment indicates how much emotional content is present within the document, and this value is often proportional to the length of the document.
 - A document with a neutral score (around 0.0) may indicate a low-emotion document, or may indicate mixed emotions, with both high positive and negative values which cancel each out. Generally, you can use magnitude values to disambiguate these cases, as truly neutral documents will have a low magnitude value, while mixed documents will have higher magnitude values.
 - “Clearly positive” and “clearly negative” sentiment varies for different use cases and customers. You might find differing results for your specific scenario. We recommend that you define a threshold that works for you, and then adjust the threshold after testing and verifying the results. For example, you may define a threshold of any score over 0.25 as clearly positive, and then modify the score threshold to 0.15 after reviewing your data and results and finding that scores from 0.15-0.25 should be considered positive as well.

2 Baidu Chinese sentiment analysis VS Google Chinese sentiment analysis

2.1 Baidu Chinese sentiment analysis postitive probability compare with different ranking(origin data)

2 BAIDU CHINESE SENTIMENT ANALYSIS VS GOOGLE CHINESE SENTIMENT ANALYSIS4

Ranking	Mean	Valid N	std.deviation	Total N	Minimum	Maximum
Ranking 10	0.239365965000	8525	0.2219412270000	8572	0.000106	1.000000
Ranking 20	0.292751426000	13141	0.2357115580000	13226	0.000162	1.000000
Ranking 30	0.394234	18821	0.273685	18974	0.000214	1.000000
Ranking 40	0.511990	8717	0.300618	8790	0.001050	1.000000
Ranking 50	0.568988	4271	0.312815	4307	0.000536	1.000000



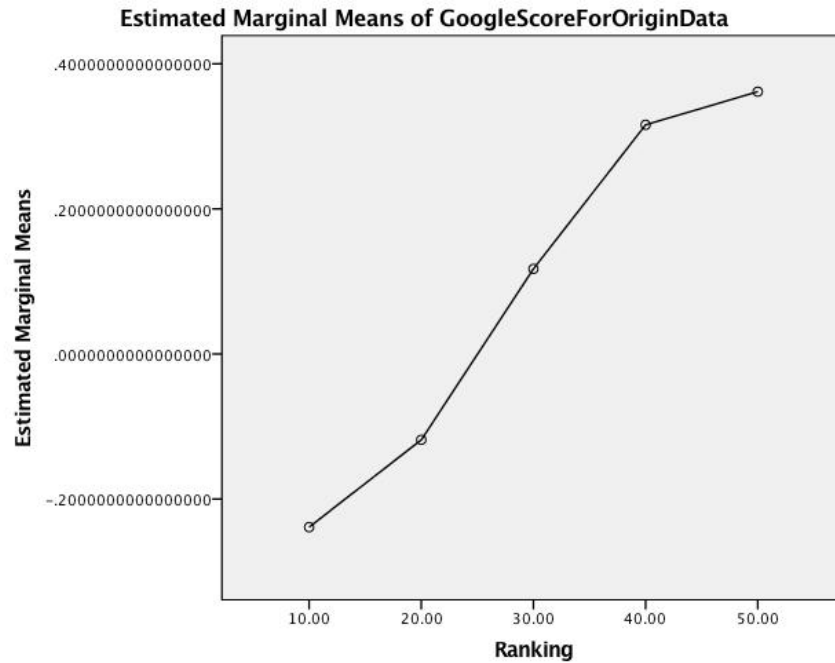
2.1.1 Error Rate

Ranking	Error Rate
Ranking 10	0.0054829678
Ranking 20	0.0064267352
Ranking 30	0.0080636661
Ranking 40	0.0083048919
Ranking 50	0.0083584862

Total Error Rate: 0.0073140396

2.2 Google Chinese sentiment analysis scores compare with different ranking (origin data)

Ranking	Mean	Valid N	std.deviation	Total N	Minimum	Maximum
Ranking 10	-0.238742	8567	0.445384	8572	-0.900000	0.900000
Ranking 20	-0.118380	13210	0.448064	13226	-0.900000	0.900000
Ranking 30	0.117291	18940	0.462095	18974	-0.900000	0.900000
Ranking 40	0.315915	8778	0.458128	8790	-0.900000	0.900000
Ranking 50	0.361626	4305	0.441309	4307	-0.900000	0.900000



2.2.1 Error Rate

Ranking	Error Rate
Ranking 10	0.0005832944
Ranking 20	0.0012097384
Ranking 30	0.0017919258
Ranking 40	0.0013651877
Ranking 50	0.0004643603

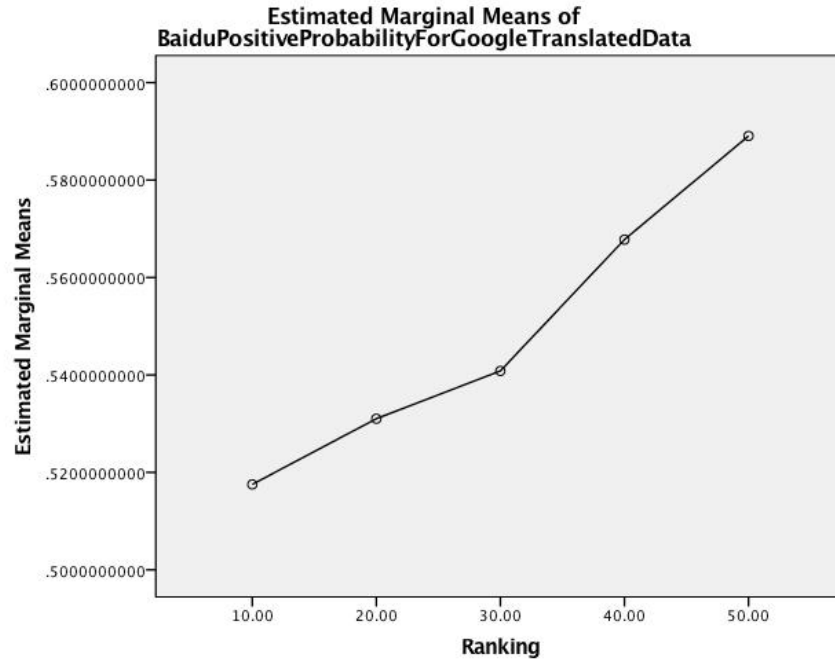
Total Error Rate: 0.0012808851

3 Baidu English sentiment analysis VS Google English sentiment analysis

3.1 Base on Google translated data**3.1.1 Baidu English sentiment analysis postitive probability compare with different ranking(based on Google translated data)**

Ranking	Mean	Valid N	Std.deviation	Total N	Minimum	Maximum	Variance
Ranking 10	0.517526	7968	0.134711		0.005045	1.000000	0.018147
Ranking 20	0.531020	12225	0.141214		0.037275	1.000000	0.019941
Ranking 30	0.540824	17457	0.137174		0.014443	1.000000	0.018817
Ranking 40	0.567782	8163	0.144971		0.051860	1.000000	0.021016
Ranking 50	0.589054	4006	0.150737		0.086614	1.000000	0.022722

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3.1.2 Google English sentiment analysis score compare with different ranking(based on Google translated data)

Ranking	Mean	Valid N	Std.deviation	Total N	Minimum	Maximum	Variance
Ranking 10	-0.338431	8566	0.430581		-0.900000	0.900000	0.185400
Ranking 20	-0.244312	13204	0.437549		-0.900000	0.900000	0.191449
Ranking 30	-0.057978	18940	0.447353		-0.900000	0.900000	0.200125
Ranking 40	0.147830	8777	0.455342		-0.900000	0.900000	0.207336
Ranking 50	0.225000	4304	0.453471		-0.900000	0.900000	0.205636

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