605.744: Information Retrieval Emotion Extraction From Lyrics

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1 Introduction

2 Technical Background

All of the source code is in Python 3.10. The program is split into several modules and follows an object oriented structure.

Original count: 748

 $25\%:\ 747,\ 0.007366122852376495\ 50\%:\ 747,\ 0.031104515575374657\ 75\%:\ 730,\ 0.07781607776652624$

mean: 747, 0.042994973168723666

Table 1: ratio

Metric	Loss
25% percentile	490
50% percentile	474
75% percentile	470
90% percentile	470
mean	469

Table 2: No transform

Emotion	mean	median	mean	median	mean	median
anticipation	1.730709	1.5940	3.719128	2.8350	1.730709	1.5940
disgust	1.069293	0.7200	2.601124	1.1640	1.069293	0.7200
anger	1.648021	1.2190	3.986169	1.8750	1.648021	1.2190
trust	2.476561	2.1790	6.776188	4.9530	2.476284	2.1790
sadness	1.790973	1.5090	3.842015	2.6960	1.701007	1.4210
joy	2.392433	2.2070	6.319867	4.4240	2.392433	2.2070
fear	1.888261	1.5315	3.869922	2.4785	1.888261	1.5315
surprise	0.851107	0.7420	1.840037	1.0710	0.851107	0.7420

Table 3: ratio

Emotion	mean	median	max
joy_ratio	0.216300	0.218978	0.668980
trust_ratio	0.186233	0.187097	0.638021
sadness_ratio	0.121942	0.114320	0.457091
surprise_ratio	0.057528	0.052510	0.407974
anticipation_ratio	0.138459	0.138032	0.456406
anger_ratio	0.101198	0.090794	0.694792
disgust_ratio	0.065279	0.057565	0.316643
fear_ratio	0.113061	0.106388	0.409779

References

Table 4: ratio

wheel_playlist	count
fear	490
disgust	474
anger	470
sadness	470
anticipation	469
trust	461
surprise	458
joy	444