AI vs Human Content

Exploratory Data Analysis

academic_paper	article	blog_post	creative_writing	essay	news_article	product_review	social_media

CONTENT GENERATED BY AI ⟵ TOTAL NUMBER OF CONTENT GENERATED ⟶ CONTENT GENERATED BY HUMANS
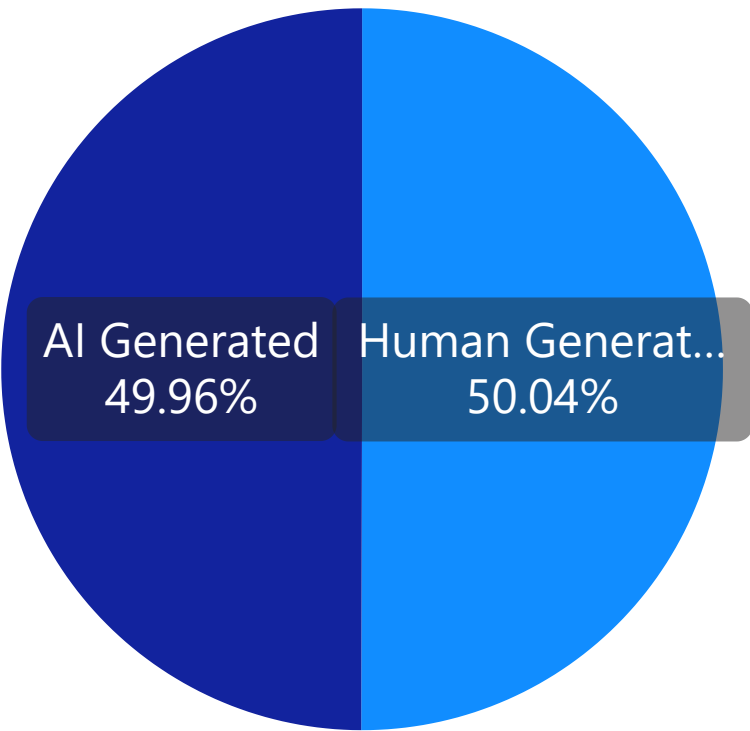
684   1367   683

50.22 % of the content were generated by AI

49.78 % of the content were generated by humans

Class Balance

content_type	Sum of AI Total Word Count ▼	Sum of AI Total Sentence Count	Sum of AI Total Character Count
academic_paper	30144	5523	202451
essay	15099	2765	101617
blog_post	12177	2232	81709
news_article	11975	2188	80133
creative_writing	10234	1856	68565
product_review	8621	1576	58073
article	7850	1440	52837
social_media	1466	275	9689
Total	**97566**	**17855**	**655074**

AI Generated 49.96%   Human Generat... 50.04%

content_type	Sum of Human Total Word Count	Sum of Human Total Sentence Count	Sum of Human Total Character Count
academic_paper	27166	4946	182432
article	11570	2108	77440
blog_post	9138	1666	61130
creative_writing	9605	1729	64459
essay	14981	2750	100411
news_article	10792	1982	72108
product_review	9415	1709	63035
social_media	1408	264	9341
Total	**94075**	**17154**	**630356**

EXPLORATORY DATA ANALYSIS	LINGUISTIC FEATURE ANALYSIS (1)	LINGUISTIC FEATURE ANALYSIS (2)	CONTENT QUALITY ANALYSIS	CONTENT QUALITY ANALYSIS (2)

AI vs Human Content
Linguistic Feature Analysis

Flesch Reading Ease

52.17	52.18
Average of AI Generated Mean	Average of Human Generated Mean
52.78	52.39
Average of AI Generated Median	Average of Human Generated Med...
8.66	9.68
Average of AI Generated StdDev	Average of Human Generated StdD...

Lexical Diversity

0.97	0.97
Average of AI Generated Mean	Average of Human Generated Mean
0.97	0.97
Average of AI Generated Median	Average of Human Generated Med...
0.02	0.02
Average of AI Generated StdDev	Average of Human Generated StdD...

Gunning Fog Index

7.56	7.55
Average of AI Generated Mean	Average of Human Generated Mean
7.43	7.47
Average of AI Generated Median	Average of Human Generated Med...
1.57	1.77
Average of AI Generated StdDev	Average of Human Generated StdD...

Average Word Length

6.71	6.70
Average of AI Generated Mean	Average of Human Generated Mean
6.70	6.68
Average of AI Generated Median	Average of Human Generated Med...
0.24	0.26
Average of AI Generated StdDev	Average of Human Generated StdD...

AI vs Human Content
Linguistic Feature Analysis

academic_paper	article	blog_post	creative_writing	essay	news_article	product_review	social_media

Punctuation Ratio

0.03 Average of AI Generated Mean	**0.03** Average of Human Generated Mean
0.03 Average of AI Generated Median	**0.03** Average of Human Generated Med...
0.00 Average of AI Generated StdDev	**0.00** Average of Human Generated StdD...

Burstiness

0.41 Average of AI Generated Mean	**0.44** Average of Human Generated Mean
0.39 Average of AI Generated Median	**0.44** Average of Human Generated Med...
0.19 Average of AI Generated StdDev	**0.20** Average of Human Generated StdD...

Average Sentence Length

5.47 Average of AI Generated Mean	**5.50** Average of Human Generated Mean
5.47 Average of AI Generated Median	**5.48** Average of Human Generated Med...
0.41 Average of AI Generated StdDev	**0.41** Average of Human Generated StdD...

Passive Voice Ratio

1.21 Sum of AI Generated Mean	**1.20** Sum of Human Generated Mean
1.22 Sum of AI Generated Median	**1.20** Sum of Human Generated Median
0.45 Sum of AI Generated StdDev	**0.45** Sum of Human Generated StdDev

AI vs Human Content
Content Quality Analysis
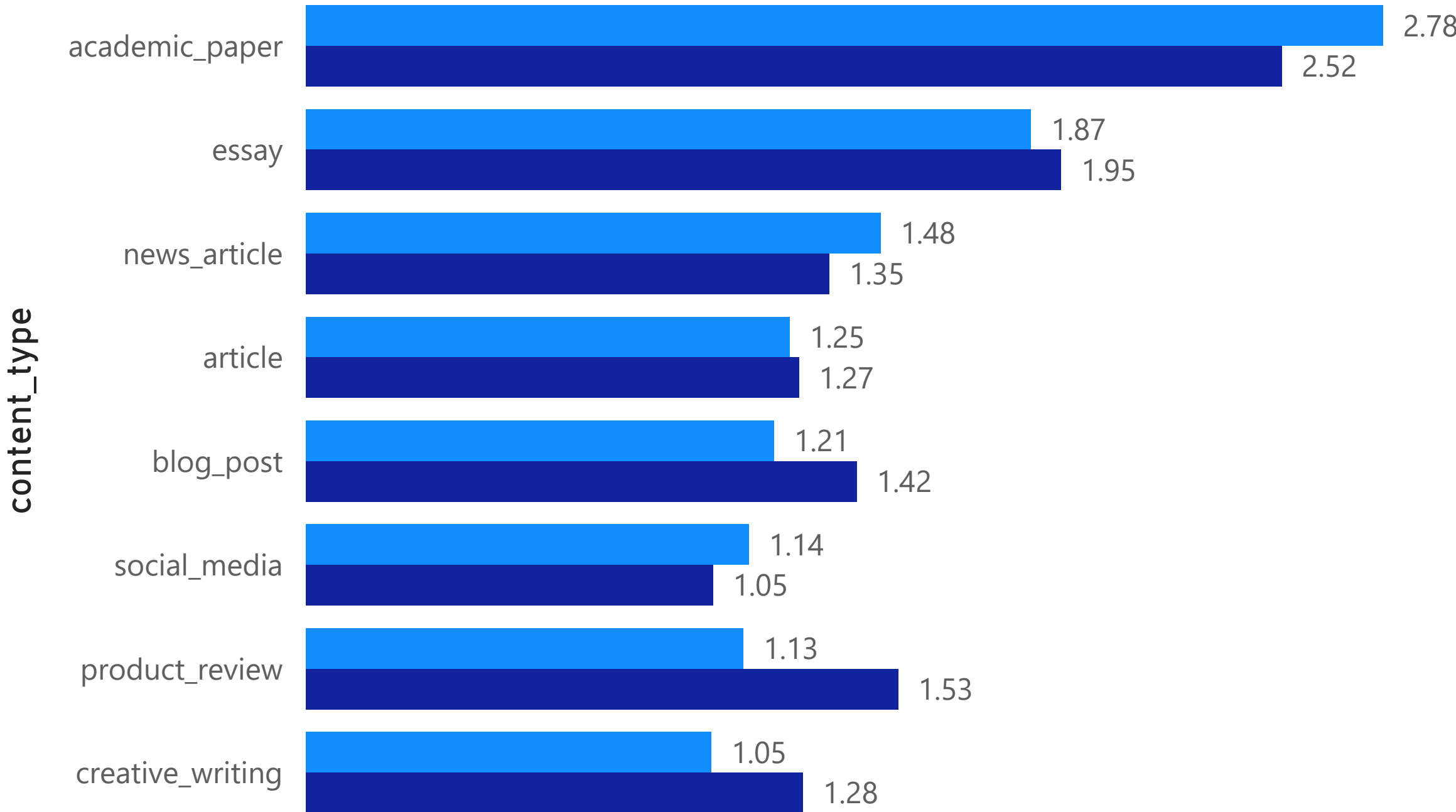
Total Grammatical Errors made by AI
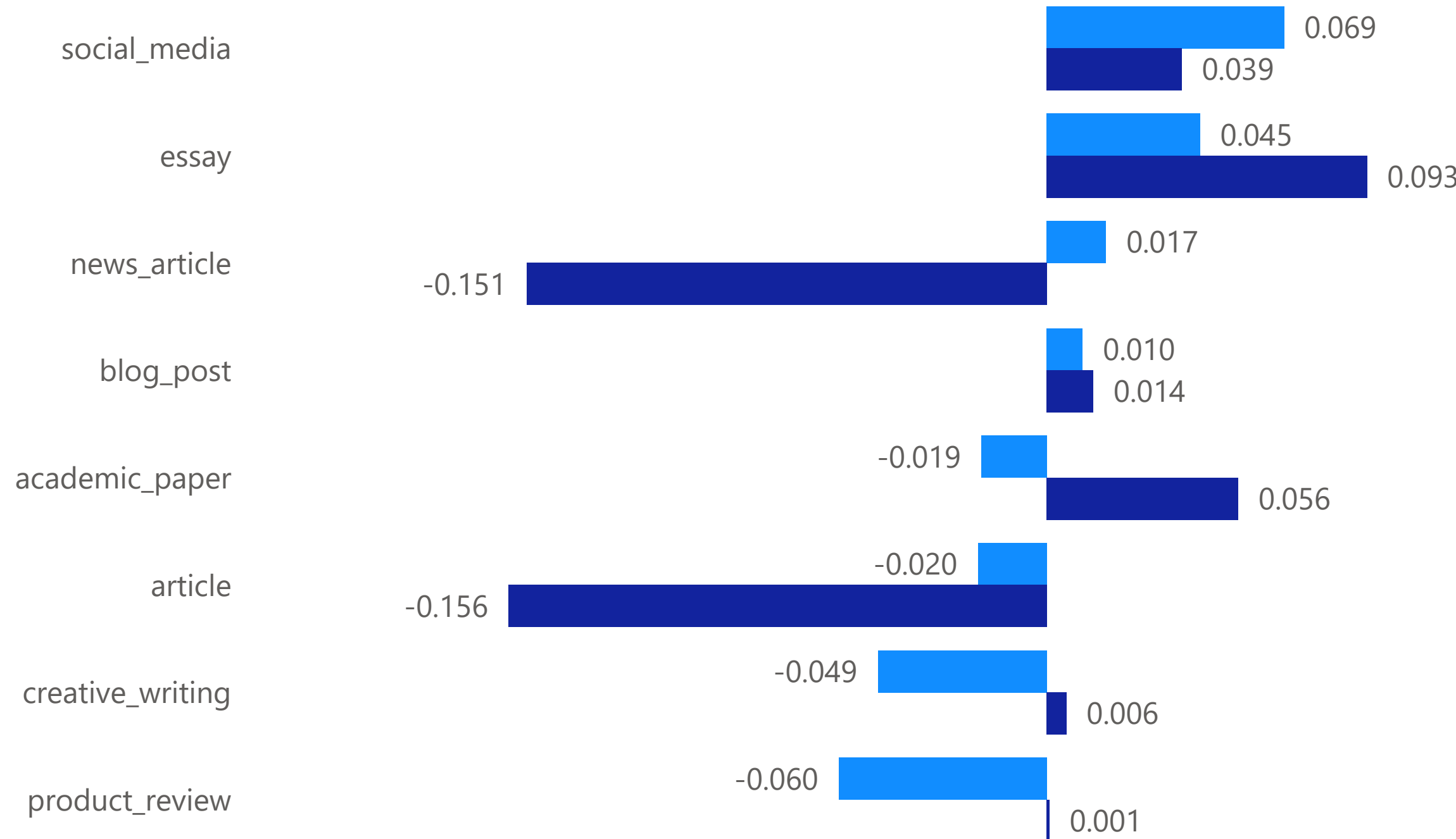# 1037

Total Grammatical Errors made by Humans
1065

Average Errors made in each content type

● Average of AI Generated Mean ● Average of Human Generated Mean

content_type	Average of AI Generated Mean	Average of Human Generated Mean
academic_paper	2.78	2.52
essay	1.87	1.95
news_article	1.48	1.35
article	1.25	1.27
blog_post	1.21	1.42
social_media	1.14	1.05
product_review	1.13	1.53
creative_writing	1.05	1.28

Average Sentiment for each content type

● Average of AI Generated Mean ● Average of Human Generated Mean

content_type	Average of AI Generated Mean	Average of Human Generated Mean
social_media	0.069	0.039
essay	0.045	0.093
news_article	0.017	-0.151
blog_post	0.010	0.014
academic_paper	-0.019	0.056
article	-0.020	-0.156
creative_writing	-0.049	0.006
product_review	-0.060	0.001

EXPLORATORY DATA ANALYSIS | LINGUISTIC FEATURE ANALYSIS (1) | LINGUISTIC FEATURE ANALYSIS (2) | CONTENT QUALITY ANALYSIS | CONTENT QUALITY ANALYSIS (2)

AI vs Human Content
Content Quality Analysis
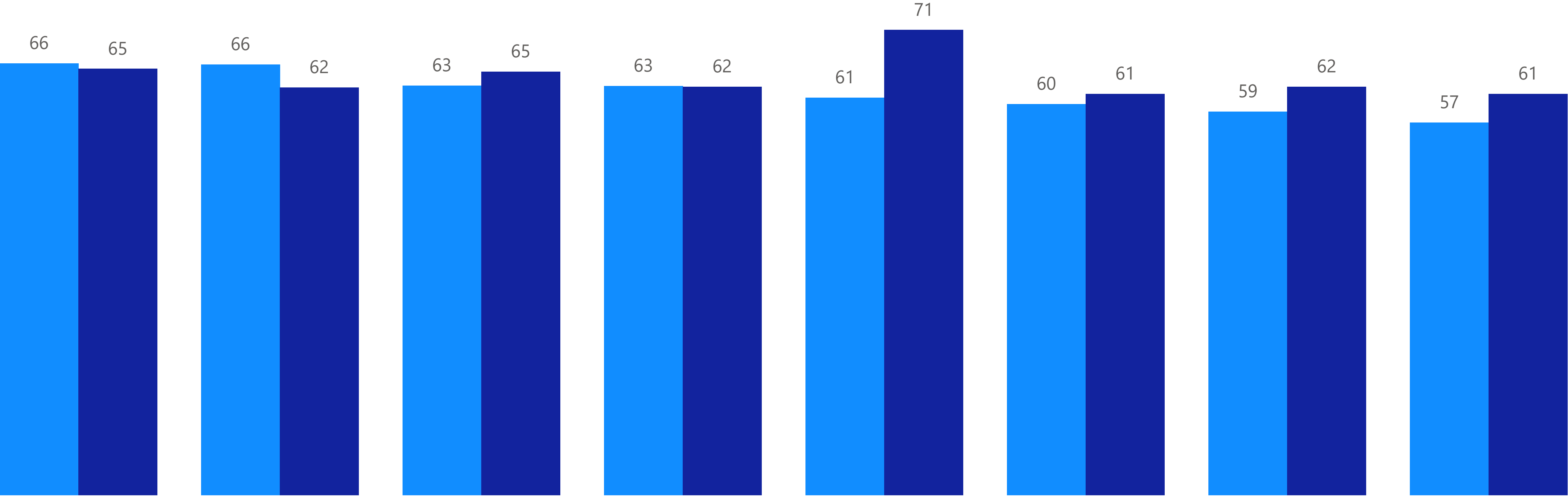
AI Overall Average Predictability Score

61.70

Total Grammatical Errors made by Humans

63.93

Predictability Score in ech Content Type

● Average of AI Generated Mean ● Average of Human Generated Mean

	social_media	academic_paper	essay	news_article	product_review	creative_writing	blog_post	article
AI Generated Mean	66	66	63	63	61	60	59	57
Human Generated Mean	65	62	65	62	71	61	62	61

| EXPLORATORY DATA ANALYSIS | LINGUISTIC FEATURE ANALYSIS (1) | LINGUISTIC FEATURE ANALYSIS (2) | CONTENT QUALITY ANALYSIS | CONTENT QUALITY ANALYSIS (2) |