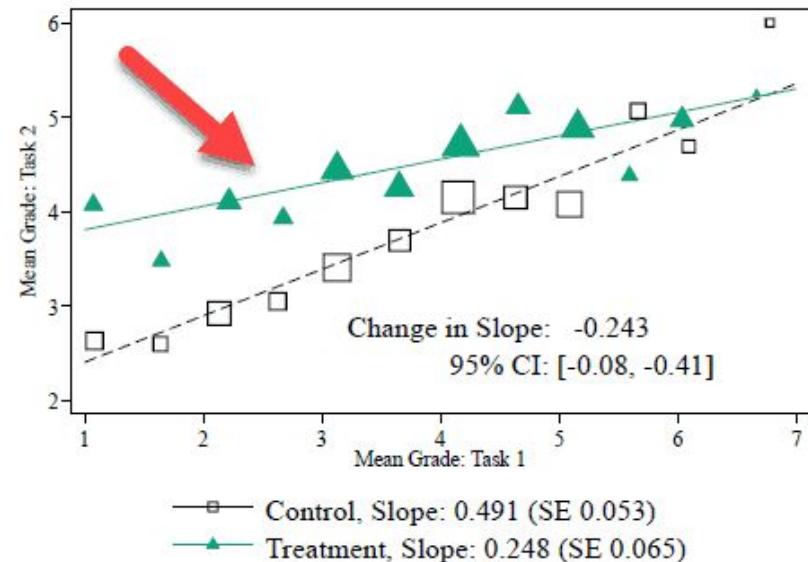
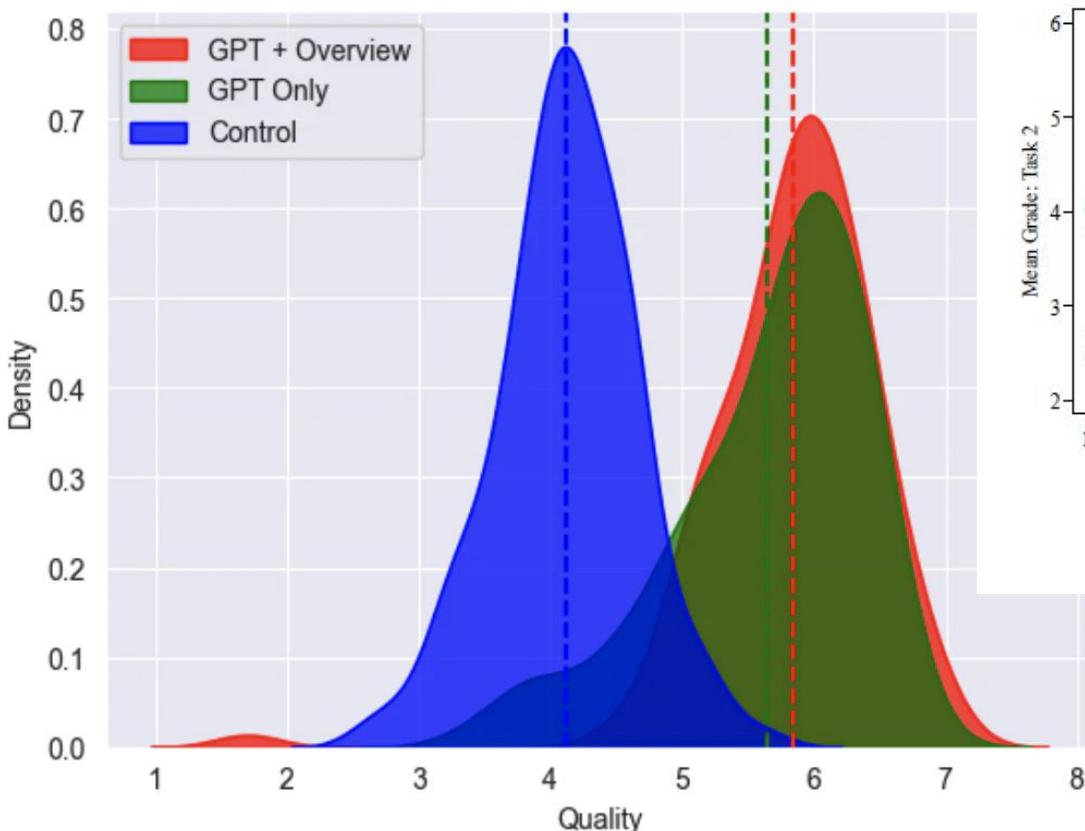


Figure 2: Performance Distribution - Inside the Frontier

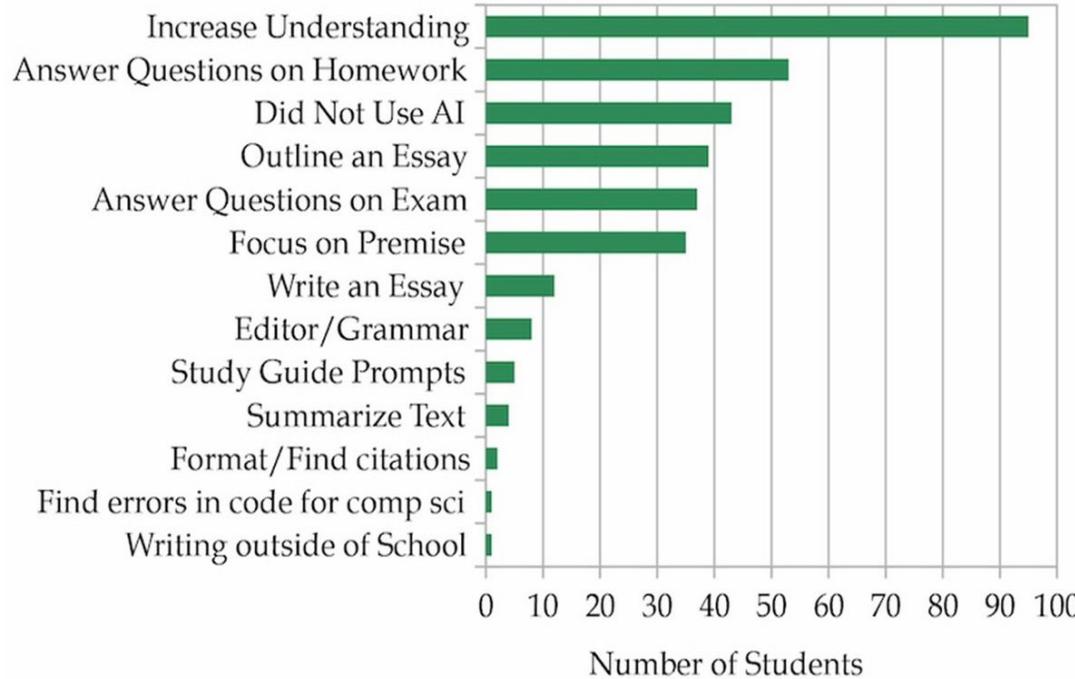
(a) Grade Inequality Decreases



https://economics.mit.edu/sites/default/files/inline-files/Noy_Zhang_1.pdf

Notes: This figure displays the full distribution of performance in the experimental task inside the frontier for subjects in the three experimental groups (red for subjects in the GPT+Overview condition; green for subjects in the GPT Only condition; blue for subjects in the control condition).

How students use LLM



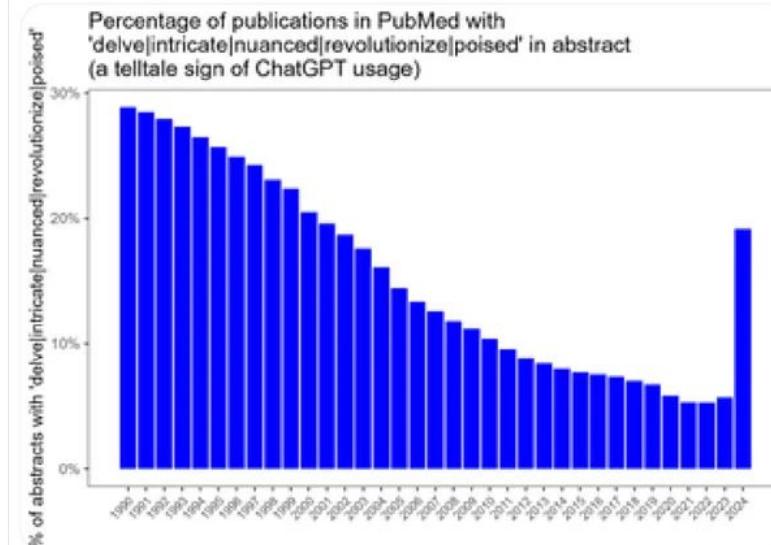
<https://www.frontiersin.org/journals/education/articles/10.3389/feduc.2024.1374889/full>



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Here the frequency of Pubmed abstracts containing *delve* OR *intricate* OR *nuanced* OR *revolutionize* OR *poised* (all typical ChatGPT words). About a 5 fold increase in the odds ratios to encounter them in the abstract in 2024 relative to baseline expectation. dropbox.com/scl/fi/sbob5ak...



Water used in data centers for common online activities

Water used by data center (L)



0.5 L water bottle for comparison

2

1

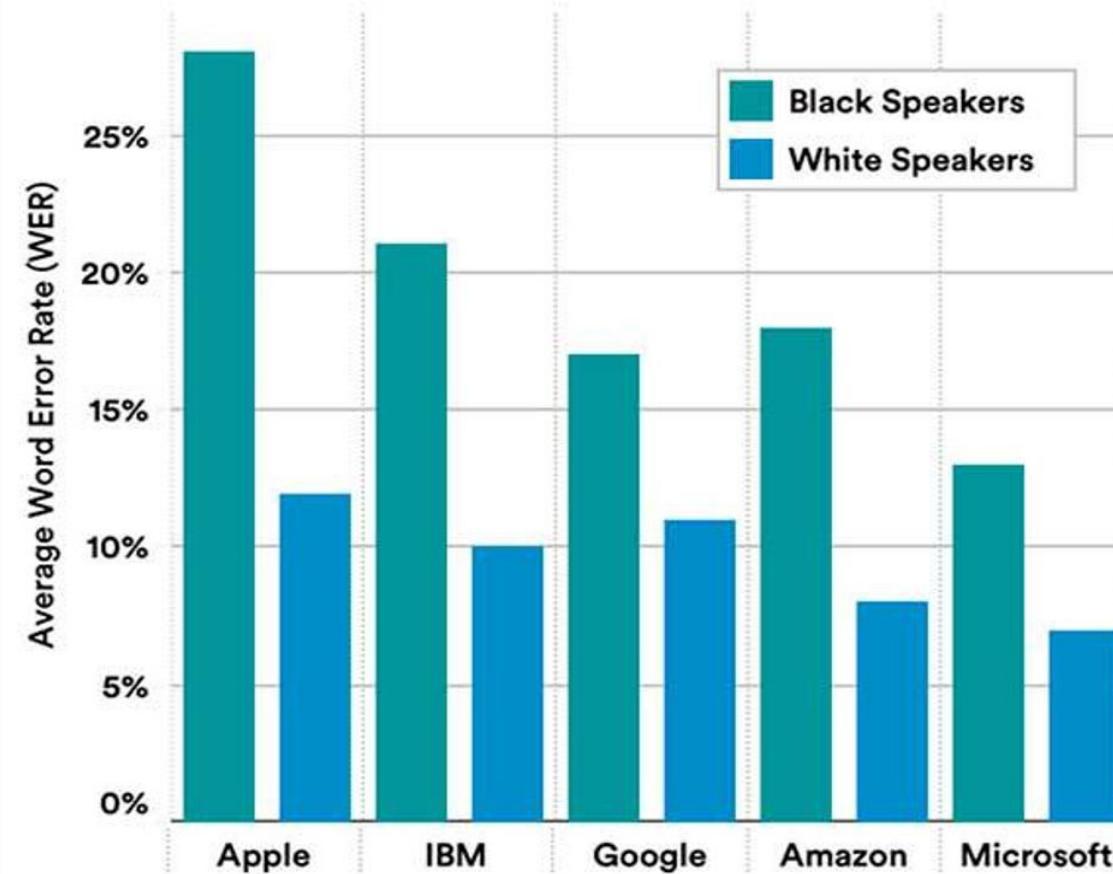
0

Sending an email Posting a photo on social media One online bank transaction Asking ChatGPT a question Downloading a phone app E-commerce purchase 1 hour listening to streaming music 1 hour using GPS navigation 1 hour browsing social media Uploading a 1GB file to cloud storage 1 hour Zoom call 10 minute 4K video

Online activity

TESTINGS on LEADING SPEECH-to-TEXT SERVICES: WORD ERROR RATE by SERVICE and RACE, 2019

Source: Koenecke et al., 2020 | Chart: 2021 AI Index Report



	USA (n = 822)		Germany (n = 875)		China (n = 912)	
	n	%	n	%	n	%
Gender						
Female	449	54.62%	447	51.09%	433	47.48%
Male	373	45.38%	428	48.91%	478	52.52%
Age						
18-34	175	21.29%	185	21.19%	379	41.60%
35-49	251	30.54%	218	24.97%	253	27.77%
50-64	182	22.14%	241	27.61%	256	28.10%
65+	214	26.03%	229	26.23%	23	2.52%
Education						
Low	27	3.28%	119	13.60%	36	3.95%
Medium	349	42.46%	479	54.74%	268	29.39%
High	446	54.26%	277	31.66%	608	66.67%
	mean	std	mean	std	mean	std
Ratings (Human)						
Audio	1.60	1.74	0.99	1.87	0.33	1.04
Image	1.65	1.72	0.97	1.84	0.42	0.83
Text	1.70	1.68	0.89	1.88	0.73	0.59
Ratings (Machine)						
Audio	1.81	1.75	0.92	1.97	0.17	0.29
Image	1.50	1.65	1.10	1.81	0.43	1.09
Text	1.77	1.75	0.76	1.89	0.49	0.27
Accuracy						
Audio	50.57%	10.38%	59.15%	13.98%	51.73%	11.65%
Image	48.58%	10.62%	45.90%	11.80%	49.93%	10.47%
Text	51.50%	9.40%	54.48%	10.30%	52.45%	10.22%
Predictors						
CRT	0.49	0.83	1.04	1.04	1.49	1.10
FAM	1.04	1.32	1.00	1.21	1.38	1.16
PO	1.30	1.03	1.20	1.04	1.12	0.86
AHS	4.73	0.56	4.97	0.62	4.89	0.49
GTS	3.44	0.74	3.42	0.66	3.81	0.65
NMLS CC	3.61	0.58	3.65	0.57	3.83	0.49
NMLS CP	2.69	1.06	2.17	0.96	3.57	0.70
NMLS FC	3.69	0.63	3.74	0.56	3.84	0.52
NMLS FP	3.01	1.04	2.72	0.91	3.80	0.60

<https://www.pnas.org/doi/10.1073/pnas.2120481119>
<https://metaailabs.com/humans-can-barely-distinguish-ai-generated-content-from-human-created-content/#summary>

