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Annotated Bibliography

Xu, Zhaoxiang, et al. "The Public Attitude towards ChatGPT on Reddit: A Study Based on Unsupervised Learning from Sentiment Analysis and Topic Modeling." PloS One [United States], vol. 19, no. 5, 2024, p. e0302502, <https://doi.org/10.1371/journal.pone.0302502>.

This recent article about AI focuses on Reddit users' general opinion toward ChatGPT. This means that this article will likely be more focused on generative text based AI, instead of any AIs in other use cases like having a physical presence or being a specialized tool. The authors of the article look at 23,773 reddit posts and comments from January to August 2023 using sentiment analysis and topic modeling. They use TextBlob and VADER which determine weighted scores to classify sentiment into both a linguistic nuance and sentimental intensity. They looked at seven topics such as user perception, technical methods, and impacts on society. These themes show what Reddit users think about ChatGPT's usefulness, how to use it, and its broader social and economic consequences.

The results of the study show that Reddit sentiment toward ChatGPT was generally positive, with about 61.6% positive, 20.8% negative, and 17.6% neutral posts. The study also says that many discussions include mixed opinions, where they praise ChatGPT's capabilities but also show concerns about accuracy, ethics, and job impacts. Across the study's timeline, they

displayed the trends of sentiment, showing major updates such as GPT-4 and release of ChatGPT Plus triggered spikes in discourse and emotional response.

Naing, Shwe Zin Su, and Piyachat Udomwong. “Public Opinions on ChatGPT : An Analysis of Reddit Discussions by Using Sentiment Analysis, Topic Modeling, and SWOT Analysis.” *Data Intelligence* [255 Main Street, 9th Floor, Cambridge, Massachusetts 02142, USA], vol. 6, no. 2, 2024, pp. 344–74, https://doi.org/10.1162/dint_a_00250.

The authors looked at Reddit discussions surrounding ChatGPT over a one year period of December 2023 to December 2024. They also used sentiment analysis, topic modeling, and SWOT analysis to look at what users thought of AI in general. The study shows a largely positive sentiment from the Reddit discourse, especially in ChatGPT’s capabilities in coding, content generation, and entertainment. The topics they included were education, job market implications, political neutrality, and the “DAN” alter ego. “DAN” reflected the demand for playful and unrestricted AI interactions. The study also showed the benefits of AI such as personalized learning and AI-assisted productivity and also negatives such as academic overreliance, potential job displacement, and ethical concerns around data usage. The article doesn’t cover a long amount of time, but still provides very relevant data because of its strong analysis methods, including important topics, and opposing views on AI. This study shows both sides of what people think about AI. Another strong suit the source has is the comparison from 2023 to 2024, where there was a general increase in positivity about AI.

Graham, Christian, and Rusty Stough. “Consumer Perceptions of AI Chatbots on Twitter (X) and Reddit: An Analysis of Social Media Sentiment and Interactive Marketing Strategies.”

Journal of Research in Interactive Marketing [Bradford], vol. 19, no. 7, 2025, pp. 1096–124,
<https://doi.org/10.1108/JRIM-05-2024-0237>.

This article analyzes social media sentiment about ChatGPT across Twitter (X) and Reddit during the rollouts of GPT-3 (2020) through GPT-4 (2023). They used more than 300,000 reddit posts and comments collected between november 2022 to april 2023. The authors used the sentimentR package to classify sentiment and emotion analyses. They marked words such as trust, joy, fear, etc. The findings were that sentiment toward ChatGPT was broadly positive on both platforms, with trust and joy being one of the big ones. However, some negative and neutral posts persisted about job impacts and perceived lack of emotional intelligence. These findings are very similar to the first source, which confirms both findings. It is interesting to note that this study also compares the reddit comments & posts to Twitter. This will likely emphasize the more fast paced and hype driven reactions on Twitter compared to the longer discussions on Reddit. This source is important because it will function as a demonstration that Reddit users are more negative towards ChatGPT overall compared to Twitter. What is especially interesting about this source is that it claims Reddit Comments declined in positivity for the release of GPT compared to GPT4. This differs to the overall increase in positivity that was shown in source #2.

Bervar, Mitja, et al. “Public Perceptions of Generative AI in Creative Industries: A Reddit-Based Text Mining Study.” *Systems (Basel)* [Basel], vol. 14, no. 1, 2026, p. 116,
<https://doi.org/10.3390/systems14010116>.

This study looks at Reddit discourse on generative AI within creative communities such as r/Midjourney, r/aiArt, r/Illustration, r/Marketing, r/Freelance, and r/ArtificialIntelligence. It found roughly 3,994 posts and comments spanning from early 2022 to June 2025. The authors

combined WordStat preprocessing, frequency analysis, and hierarchical clustering of phrases to dissect what comments and posts thought about AI. To see what sentiments were, they used a hybrid approach of Boardflare NPL and some manual narrative interpretation. The findings were put into groups of artistic expression, AI infrastructure and language models, content-quality concerns, tool-specific workflows, and social/promotion/cultural themes. Mainly, “AI art” and phrases related to it showed up a lot, neutral opinions were common, and negative discourse talked about authorship, style appropriation, and moderation (bullying, drama, and AI video threats). This source is mostly relevant because it shows the effects of AI on the creative industry specifically. There are far less positive comments compared to the general opinion of AI, according to the other articles. The timeline isn’t the best, as it is very recent. This means it will show recent opinions rather than change over time. In this case, it’s a good thing this is true, as most artistic technologies (video generation, advanced image generation) of AI have especially grown in these last few years.

Fodor, Szabina, and Bettina Boncz. “InGPT We Trust: Perceptions of the Future of Work with Artificial Intelligence on Online Forums.” *Data Science and Management*, 2025, <https://doi.org/10.1016/j.dsm.2025.11.001>.

The study analyzed about 117,000 Reddit comments and posts, with 114,377 left over after cleaning the data. They looked at 37 subreddits spanning from January 2013 to January 2024. This timeline is very relevant because it encapsulates most of the growth of AI but has a niche specific to how people feel about work (with AI). They used a modern topic modeling system called BERTopic and RoBERTa for sentiment/emotion detection to track how discourse changed over the decade. They identified 23 topics that they grouped into four meta-topics. The topics that showed job transformation showed that highly educated professions such as doctors

and lawyers got a lot of attention. Redditors talked about augmentation and replacement of these fields. Economic topics and AI in the future of work topics showed a large portion of anger and disgust, with politics and influencers having the highest amount of negativity. The paper also showed that Reddit wasn't just fearmongering, they were having serious debates about policy, ethics, and practical workplace changes. An important metric is that the mean of negative posts has gradually increased over the years of the study. This means that Reddit comments are likely scared with the growing intelligence of AI that it will cause harm. Meanwhile, the mean of positive posts has varied greatly, but it also increased; this makes it seem like it is a lot more dependent on events as mentioned in the article, such as COVID-19 and the release of ChatGPT

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Research Proposal: How do Reddit people and different fields feel about the growth of AI?

In recent times, Artificial Intelligence (AI) has become a bigger topic of debate. It has been questioned countless times if it will help or destroy humans, is a cheating tool or personal teacher, or is liked or hated. My research will focus on answering one of these and hopefully assist finding the others: how do people on Reddit and certain fields feel about AI. It seems like many people either love AI or really dislike it; it also affects many individuals in all types of fields since it is such a revolutionary technology. Why others and I may find this research valuable is since we can find out if people think AI is either positive or negative for their own tasks, job, or day-to-day life. It's also important to think about how people critique or support AI, because if many do not like it then why are we still developing such a powerful technology? This research will primarily focus on LLMs AIs (large language model) which output human-like text; applications such as ChatGPT or Google Gemini use this. It is important to know that this may not encompass "all of AI;" however, it will still show a large percentage of what people think since it's such a popular type of AI nowadays. I will focus on several online communities on Reddit such as r/aiArt, r/Art, r/Marketing, r/Jobs, r/ArtificialIntelligence, and more. All of these communities will offer plenty of potential comments that talk about AI and opinions on it. I will use certain search terms to narrow the content of the subreddits down to something specific about my research. This may unfortunately introduce some bias but I will address this later in my research proposal talking about the constraints and methods; however, this bias shouldn't be too prominent or affect the research too much as the secondary sources also included these subreddits. My research question will hopefully be answered by these because people would naturally talk about AI in the main subreddits like r/Jobs and r/Art since it's such a large and growing technology. However, a weakness these have is that discourse would primarily stem

from new breakthroughs or realizations about AI. In these cases, the more AI focused subreddits should come in handy as they would encompass the entire timeline of that sector such as r/aiArt or simply r/ArtificialIntelligence. Reddit should be a good space for data because people share real debates, valuable opinions, and interesting critiques. When looking at online comments I will try to analyze debates and general opinions on AI. Specifically, debates should show both sides of what people think while general opinions will have a stronger outlook of what people think on certain aspects of it. These opinions could also be narrowed down to specific subreddits or fields, which will showcase peoples' thoughts on something like "AI in the workplace." I'd know when I find valuable comments since they would stand out or have a genuinely good point or debate as well as using the search terms. This research might be important to others to determine if they should use, protest, or support AI. Let's say the findings are overwhelmingly positive from this study, then it may mean that people can stress less and view the real benefits of AI and also support it to grow. Otherwise, if the findings are majority negative, people may find this research helpful by then protesting AI or not using it. For example, if AI is overwhelmingly negative in something like the work place, readers may tell their boss to stop using it because of the reasons listed by Reddit comments. Both of these effects are reasonable since the majority opinion of what people think is likely not out of the blue, they will likely have some facts and reasons for them. The teams that make up AI companies may also find this research helpful as it would show weaknesses or strengths in what people think, acting as feedback for their development. My secondary research should help with finding the general opinion of positivity vs negativity in these communities and overall. The constraints of the research will primarily be that I am analyzing mainly AI subreddits and filtering for AI keywords. These will make posts specific about just AI instead of focusing on a general decreasing or increasing opinion of that

sector like art or work. However, the downside here is outweighed by the potential bias made by just the general sway of the opinions of people. Another constraint is that I am specifically analyzing Reddit which would mean that information is skewed in favor of users that are usually younger, more informed, and slow-paced. This is balanced out by people that think negatively about AI because of confusion or inexperience which may occur on more fast paced platforms like Twitter where there's a lot of less thought out comments and misinformation. Overall, AI is a rapidly growing technology that will likely be very important for generations to come. This research should help to determine how people have felt about it and will feel about it in the future; will it make or break us?