ANTHROP\C

Appendix to “Anthropic Economic Index report: Cadences”

June 2026

CHAPTER 1

Changes to the economic index pipeline

With this release, we made several changes to how we sample and classify Claude traffic. We now sample a fixed number of conversations every hour. (In previous Economic Index reports, our data spanned a week of activity.)

We also changed how we map conversations to ONET tasks. The previous classifier traversed a tree, first picking high-level ONET categories that we had hand-crafted. Now, the ONET classifier picks a detailed work activity (DWA) in the first step, then picks among the DWA's constituent tasks in the second. We also switched over to the ONET version 30.2, released in February 2026. The new ONET classifier also reversed the order (the transcript appears at the end of the input) so that the prefix can be cached. Since Claude may have order preferences over the categories presented to it, we shuffle the options in the prefix (using a predefined set of orderings to preserve caching).

In the second step, the ONET classifier is asked to specify the ONET tasks that best describe the work being done in the transcript. It is asked to provide pairs of {task, confidence (1-5)}, and we randomly choose a task among those with the highest confidence. This randomization was meant to spread the choice across the multiple candidates in order to avoid many transcripts piling up into one specific (and arbitrary) work task.

We also changed our request clusters. The top level clusters were changed to the following:

Hobbies & Lifestyle, Content Creation & Copywriting, Software Development, Research & Intelligence, Education & Learning, Document Processing & Extraction, Knowledge Retrieval & Enterprise Search, Data Analysis & Business Intelligence, DevOps & Infrastructure Operations, Compliance & Regulatory, Personal AI Assistant, Business Process & Operations, Sales & Revenue Operations, Cybersecurity & Threat Detection, Trust & Safety / Platform Integrity, Existential, Relational, and Emotional Support, Other / Unclear, Conversation & Meeting Intelligence, Companionship & General Conversation, Customer Support & Service Operations.

Relative to prior reports, we substantially expanded the portion of each transcript visible to the classifier and updated how we sample from very long conversations that would otherwise exceed length of conversations provided to the classifier. We do this to give the classifier as much context as possible for inferring the work being performed.

The ONET classifier is given below.

ONET classifier

Step 1

```
You are analyzing a conversation between a user and a chatbot. Your task
is to determine what “work activities” the chatbot is doing for the user.
You will map the conversation to ONET work activities at various levels of
granularity.
Treat the conversation as a single unit unless it contains distinct,
unrelated activities (for example, half the conversation is about fixing
a bug and half is about personal relationship advice). Most conversations
have one task, but some will include more than one distinct task. Pick the
two most prominent ones if there are multiple.

Step 1: In 1-2 sentences, summarize this conversation.

Step 2: Pick O*NET activities that map to the activity the chatbot carries
out for the user.

Levels:

- [GWA] = broadest ({n GWA} categories)
- [IWA] = mid-level ({n IWA})
- [DWA] = specific ({n DWA})

Confidence guide:

For each picked activity, assign a confidence score from 1 to 5 using the
following rubric. The rubric asks a single question: how certain am I that
this activity is actually being performed in this conversation?
```

```
5 - Certain. The activity is explicitly performed in the conversation with
direct textual evidence.

4 - High confidence. The activity is clearly performed, inferable from
direct textual evidence with only minor interpretation.

3 - Moderate confidence. The activity is plausibly performed, but the
textual evidence is partial, implicit, or open to alternative readings. A
reasonable reviewer could either agree or disagree.

2 - Low confidence. The activity could be performed in the conversation
though concluding as much requires substantial interpretation.

1 - Very low confidence. The activity may be implied by context, but there
is no clear textual support. Picks at this level are near-noise — exclude
unless nothing stronger exists.

[GWA] Analyzing Data or Information
   [IWA] Assess characteristics or impacts of regulations or policies
     [DWA] Evaluate applicable laws and regulations to determine
     impact on organizational activities
     [DWA] Analyze impact of legal or regulatory changes
   ...
   [IWA] Analyze business or financial data
     [DWA] Analyze financial records or reports to determine state of
     operations
     [DWA] Analyze financial information
   ...

<conversation>
{TRANSCRIPT}
</conversation>

Output JSON only:
<answer>{“summary”: “<1-2 sentences>”, “picks”: [{“level”: “GWA|IWA|DWA”,
“name”: “<exact name>”, “confidence”: 1-5}], “notes”: “<optional>”}</
answer>
```

Step 2

```
Consider the following exchange:
<exchange>
{TRANSCRIPT}
</exchange>

You are analyzing a conversation between a user and a chatbot. You
previously determined these DWA-level O*NET activities for this
conversation based on the following summary:
Summary: {step-1 summary}
{semicolon-joined list of picked DWAs}

Your task now is to pick Task-level activities that map to the activity or
activities the chatbot carries out for the user.

Task options:
{up to 300 candidate Task texts, shuffled, one "- ..." line each}

Confidence guide:
[same 1-5 rubric as step 1]

Output JSON only:
<answer>{"leaf_picks": [{"name": "<exact Task text>", "confidence":
1-5}]}</answer>
```

Examples of how our classifiers work

We classify transcripts in a privacy-preserving way. To illustrate how the classifiers work, we present some example classifications using transcripts drawn from WildChat,[1] an open-source dataset of user-ChatGPT interactions. (Some assistant's responses were abbreviated for presentation below.)

The examples are meant to illustrate the utility and limitations of the approach. In Example 2, the user asks for and receives a poem. This receives an accurate (based on our judgment) ONET classification: it's labeled as "Write narrative, dramatic, lyric, or other types of poetry for publication," a task belonging to Poets, Lyricists and Creative Writers. It is also classified as a personal use case, although this is hard to prove. It's often difficult to infer how the output was used.

Example 1	
Transcript	**Human:** Please, Discuss the following results: Induction of amyloidosis in SH-Sy5y and Neuro 2a cells has significantly elevated the level of IL-6 and TNF-α inflammatory cytokines against control cells. Protection of the cells by both the free as well as the loaded VRH showed significant decrease in the concentration of these cytokines compared to Aβ control and the loaded therapy showed the lowest level of the cytokines, where were significant versus the free corresponding form **Assistant:** The results suggest that the induction of amyloidosis [...] **Human:** Great thanks
O*Net Classifier	[GWA] Analyzing Data or Information > [IWA] Analyze data to improve operations > [DWA] Interpret research or operational data > [Task] Analyze experimental data and interpret results to write reports and summaries of findings > [occupation] Biological Technicians
Use Case	Work
Task Success	Yes
Artifact	Analysis or Summary
AI Autonomy	2

Example 2	
Transcript	**Human:** Can I have an uplifting poem about a recovered alcoholic who found renewed purpose? **Assistant:** In the depths of despair, a soul once lay, Bound in chains of sorrow, night and day. [...]
O*Net Classifier	[GWA] Documenting/Recording Information › [IWA] Write material for artistic or commercial purposes › [DWA] Write material for artistic or entertainment purposes › [Task] Write narrative, dramatic, lyric, or other types of poetry for publication > [occupation] Poets, Lyricists and Creative Writers
Use Case	Personal
Task Success	Yes
Artifact	Creative Writing
AI Autonomy	3

Example 3	

Transcript	**Human:** for js write me a function with switch case that will recieve a string of Roman numbers and will transform them into normal numbers
	
	Assistant: Sure! Here's a JavaScript function that uses a switch case statement to convert a string of Roman numerals to normal numbers:
	
	``javascript
	function romanToNumber(roman) {
	  let sum = 0;
	
	[...]

O*Net Classifier	[GWA] Working with Computers › [IWA] Program computer systems or production equipment › [DWA] Write computer programming code › [Task] Write new programs or modify existing programs to meet customer requirements, using current programming languages and technologies > [occupation] Data Warehousing Specialists
Use Case	Coursework
Task Success	Yes
Artifact	Script or Snippet
AI Autonomy	3

Example 4	
Transcript	**Human:** please write the minutes of yesterday meeting and show the action of each point as per the following: 1- for the delivery of the cable joint: the contractor stated that it will be delivered to the site by 28 December. 2- the contractor to start immediately to apply to get a work permits from AMANA, all permits should be arranged before the cutting date which will be end of December. the contractor to start trust pouring immediately after the final approval. 3- the contractor to start the mobilization and prepare all the required safety precaution along all the route 5- next meeting to be scheduled next week to discuss the updates and confirm the exact delivery date for the power cables as per the Manufacuring progress in order to set the date of the excavation start. regarding the excavation of the trench, when the exact delivery date confirmed by bahra the contractor should start the excavation prior to the delivery so the route will be ready for cable laying at the delivery date. **Assistant:** Minutes of Meeting Date: [date] Location: [location] Attendees: 1. [Name] 2. [Name] 3. [Name] 4. [Name] 5. [Name] Agenda: 1. Delivery of Cable Joint: The contractor informed the team that the cable joint would be delivered to the site by 28 December. Action: The contractor to ensure timely delivery of the cable joint by 28 December. [...]
O*Net Classifier	[GWA] Documenting/Recording Information › [IWA] Maintain operational records › [DWA] Record information from meetings or other formal proceedings › [Task] Compile, transcribe, and distribute minutes of meetings > [occupation] Executive Secretaries and Executive Administrative Assistants
Use Case	Work
Task Success	Yes
Artifact	Document or Report
AI Autonomy	2

Example 5	
Transcript	**Human:** rewrite the news headline for each: "Powell at Jackson Hole: Fed Prepared to Hike Rates If Necessary China Halves Stamp Duty on Stock Transactions to Boost Investor Confidence/ Hong Kong's Lee Plans Task Force to Boost Stock Market Liquidity BoJ's Ueda Highlights "A Bit Below" Inflation to Defend Current Monetary Easing Framework" **Assistant:** Fed Ready to Increase Interest Rates if Needed, Powell States at Jackson Hole Symposium China Reduces Stamp Duty on Stock Transactions, Aims to Enhance Investor Confidence Hong Kong's Lee Proposes Formation of Task Force to Boost Stock Market Liquidity BoJ's Ueda Emphasizes Importance of Slightly Below Target Inflation for Current Monetary Easing Policy
O*Net Classifier	[GWA] Making Decisions and Solving Problems › [IWA] Edit written materials or documents › [DWA] Edit written materials › [Task] Edit, standardize, or make changes to material prepared by other writers or establishment personnel > [occupation] Technical Writers
Use Case	Work
Task Success	Yes
Artifact	Marketing or Social Content
AI Autonomy	2

Example 6	
Transcript	**Human: check my answer:** In 5 five I see myself already have enough clinic experenice and refineing my skills as a PTA and I see myself getting into a PT program, expanding my knowledge in PT field. In 10years I see myself taking a leadership role and being able to guide other PTs and PTAs. **Assistant:** Your answer looks great! Here are a few minor suggestions for improvement: Check my answer: In five years, I see myself having already gained sufficient clinic experience and refining my skills as a PTA. I also envision myself successfully entering a PT program to further expand my knowledge in the PT field. Moving forward to the 10-year mark, I see myself taking on a leadership role and being able to guide other PTs and PTAs in their professional journeys.
O*Net Classifier	[GWA] Making Decisions and Solving Problems › [IWA] Edit written materials or documents › [DWA] Edit written materials › [Task] Read copy or proof to detect and correct errors in spelling, punctuation, and syntax > [occupation] Editors
Use Case	Coursework
Task Success	Yes
Artifact	Resume or Job Application
AI Autonomy	2

Example 7	
Transcript	**Human:** Which Rust library is best for Natural Language Processing (NLP)? **Assistant:** There are several Rust libraries available for Natural Language Processing (NLP), each with its own strengths and areas of focus. Here are some popular Rust libraries for NLP: 1. `nlp`: nlp is a general-purpose NLP library in Rust that provides tokenization, stemming, and other basic NLP functionalities. It is easy to use, efficient, and suitable for simple NLP tasks. 2. `tch-rs`: tch-rs is a Rust binding for PyTorch, a popular deep learning library. It allows you to use PyTorch models for NLP tasks in Rust, providing powerful capabilities for neural network-based NLP tasks. [...]
O*Net Classifier	[GWA] Providing Consultation and Advice to Others › [IWA] Advise others on products or services › [DWA] Recommend products or services to customers › [Task] Recommend products to customers, based on customers' needs and interests > [occupation] Sales Representatives, Wholesale and Manufacturing
Use Case	Work
Task Success	Yes
Artifact	Explanation or Answer
AI Autonomy	3

In Example 7, the question, "Which Rust library is best for Natural Language Processing (NLP)?" is mapped to a sales occupation although the question is substantively about computer programming. The classifier focuses on what the Assistant is asked to do—"Recommend products"—and not on the topic of the request. This question might have been better assigned to a task like "Consult with customers or other departments on project status, proposals, or technical issues, such as software system design or maintenance," which falls under Software Developers.

CHAPTER 2

Artifact classifier

The following prompt was used to classify the most prominent concrete output of each exchange. Categories were presented in randomized order in each call, with the "other" and "none" options always listed last. The model's answer was extracted from the answer tags and mapped to the display names used throughout Chapter 2.

```
[Exchange transcript and preamble]

What is the single most prominent concrete OUTPUT that Claude produced for
the User in this exchange?

Pick the single closest label:

• script_or_snippet: Scripts, automations, macros, code snippets, one-off
  programs, general coding
• explanation_or_answer: An explanation, definition, or factual answer
  for the respondent's own understanding
• plan_or_strategy: Multi-step plans — project plans, roadmaps, schedules,
  business strategy
• document_or_report: Formal written deliverables — reports, proposals,
  specs, memos, documentation
• app_or_website: Full applications, web/mobile apps, websites,
  extensions, SaaS
• analysis_or_summary: Summaries, syntheses, analyses of existing
  material for own use
• creative_writing: Fiction, poetry, songs, lyrics, screenplays, stories,
  worldbuilding
• advice_or_recommendation: One-off guidance on a decision — purchase,
  career, health, relationship
• idea_or_brainstorm: Brainstorm output — raw ideas, options, concept
  exploration
• email_or_message: Emails, messages, DMs, replies, short interpersonal
  communications
```

- image_or_graphic: Images, logos, illustrations, icons, photo edits, posters, flyers
- blog_or_article: Blog posts, articles, newsletters, op-eds, published web content
- code_fix_or_debug: Bug fixes, debugging, refactoring, code review of existing code
- math_or_calculation: Equations, formulas, calculations, mathematical solutions, proofs
- ml_or_ai_system: ML models, AI agents, prompts, fine-tunes, AI-powered products
- translation: Text translated between languages
- marketing_or_social_content: Ad copy, social posts, product descriptions, SEO, taglines, campaigns
- presentation_or_slides: Slide decks, PowerPoints, pitch decks, talk materials
- game_or_interactive: Games, mods, interactive fiction, game masters/RPG tools
- academic_paper_or_thesis: Academic papers, theses, dissertations, grants, literature reviews
- config_or_infra: Config files, IaC, deployment, DevOps, shell commands, system setup
- chart_or_visualization: Charts, graphs, plots, dashboards, diagrams, infographics
- data_or_spreadsheet: Spreadsheets, CSVs, tables, data cleaning/ transforms, structured data files
- resume_or_job_application: CVs, résumés, cover letters, LinkedIn profiles, job-application materials
- ui_or_design_mockup: UI mockups, wireframes, design specs, prototypes
- audio_or_music: Music, audio, sound effects, voice synthesis, podcast audio
- educational_material: Lesson plans, study guides, course materials, worksheets, lectures, tutorials for others
- recipe_or_meal_plan: Recipes, meal plans, cooking instructions, diet/ nutrition plans
- video_or_animation: Video content, animations, video scripts/edits

- `sql_or_database_query: SQL queries, database schemas, DB migrations`
- `other: A concrete output that fits none of the above`
- `none: No clear artifact`

`If several outputs apply, pick the one most prominent in the exchange.`

`Only choose an artifact label if it clearly describes what the exchange produced. If no label is a clear fit, choose none.`

`[Standard API-data disclaimer]`

`Your classification should be exactly one of the answer options (the lowercase label only), nothing else, provided in <answer> tags. For example, your answer could be script_or_snippet or none.`

Distribution of outputs on 1P API

Below figure mirrors Figure 2.1 but for 1P API. On this surface, the share of conversations with no clear output is higher (16% vs 7% on chat and Cowork). Analytic outputs dominate (21%), followed by data/spreadsheet related outputs (14%) and explanations/answers (8%).

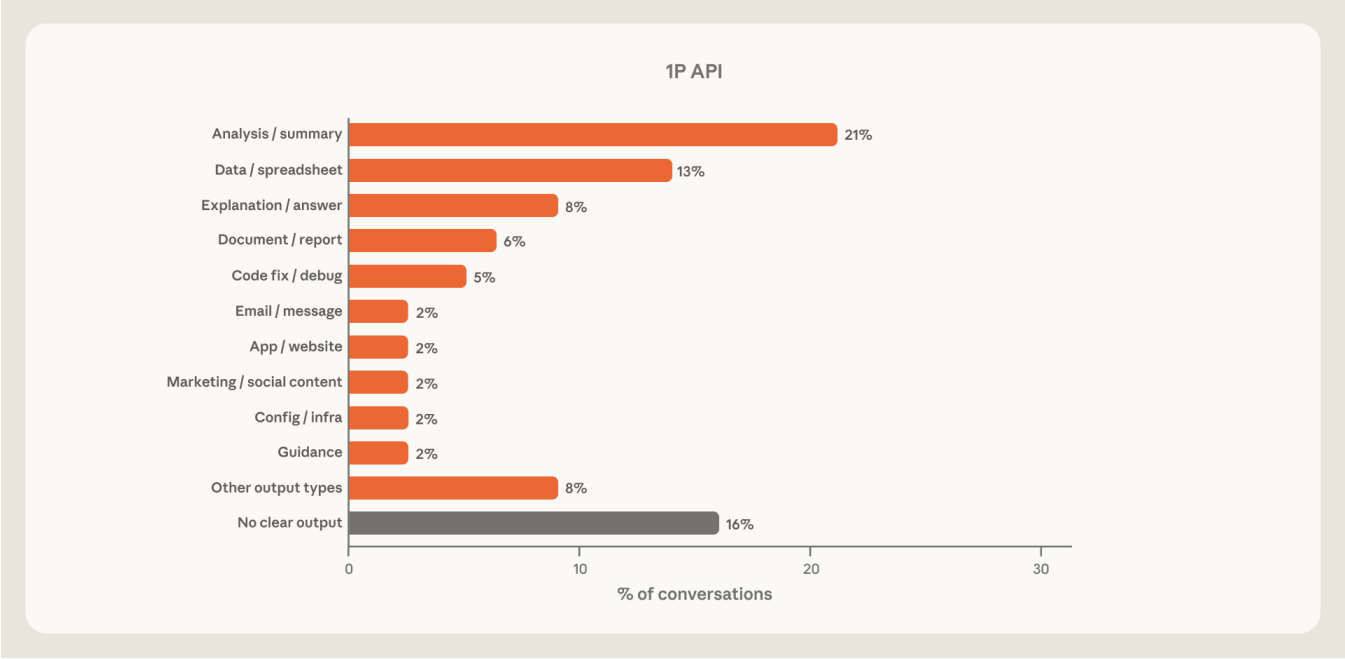


Figure A.1: Distribution of artifact types on 1P API.
Share of conversations with a specific output on 1P API. Top 10 output types presented individually.

Autonomy and token consumption

The below figure displays the normalized median token usage per artifact against the mean autonomy measured in the conversations producing these artifacts. Artifacts requiring more tokens tend to be produced with more autonomy.

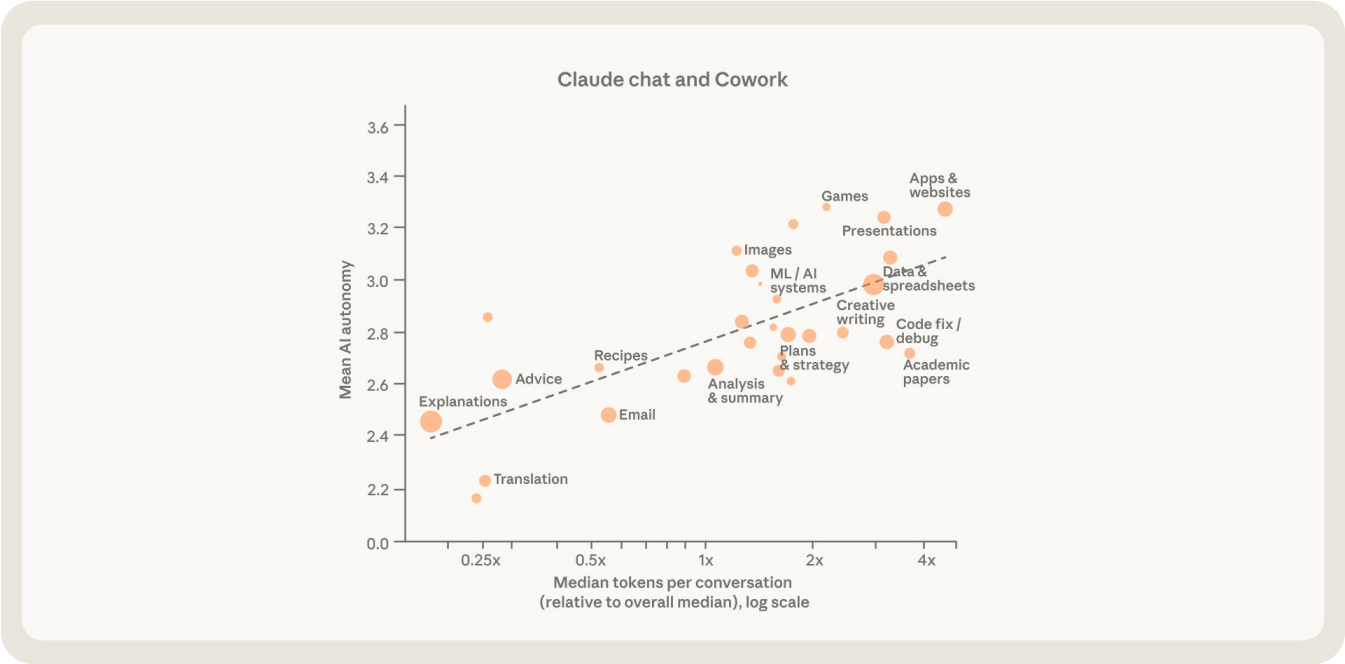


Figure A.2 : Autonomy and token usage by artifact
Mean autonomy and normalized median token consumption by artifact, chat and Cowork

CHAPTER 3

Vision themes and definitions

Themes	Definition
Work still matters: careers, meaning & working alongside AI	Employment holds up and new industries or kinds of jobs emerge; one's own job or career remains secure, with new roles or opportunities opening up; skills stay relevant (or are learned to keep up); working alongside AI as a tool or partner rather than being replaced; work becomes more meaningful, creative, or fulfilling.
Independence & empowerment	More autonomy and control over one's own work and decisions; starting or running one's own business or going independent; individuals or small teams able to do what once required large organizations — serious research, building software, running operations, serving a niche market — without a big staff or gatekeepers.
Less work: free time & drudgery automated away	More free time, shorter work weeks, or better work–life balance; AI does most of the day-to-day work, or work becomes optional altogether; retiring or exiting the workforce; a wider mix of activities across work and non-work; boring, repetitive, or administrative tasks automated away.
Richer life beyond work	More time with family and for caregiving; meaning and purpose from outside work — community, religion, creativity; better personal health or quality of life; relocation or a change of lifestyle; more human connection, community involvement, and social fabric; more time in nature; flourishing arts and culture.
Shared prosperity & economic security	Wages and prosperity broadly shared; inequality narrows; everyone's basic needs are met; UBI, other safety nets, retraining, or redistribution; universal basic capital or other up-front ownership stakes; material abundance; lower-income countries catch up and global poverty falls; economic and political power stays spread out rather than concentrated.
Safe & accessible AI	AI is developed and governed safely and responsibly; everyone gets to use AI tools themselves regardless of resources.
Progress on big problems	Scientific and technological progress; medical discoveries and cures — disease, mental health, longevity; better climate, energy, and environmental outcomes; broader access to and quality of education.
AI embedded in daily life & decisions	AI becomes part of everyday routines and daily life; decisions in business, government, and daily life are increasingly made with data and AI analysis.
Growth, productivity & living standards	Overall economic growth and productivity gains; cheaper, better, or more abundant goods and services; improved cost of living, housing affordability, and economic stability.
Own pay & wealth	Higher pay, income, or financial security for oneself; building personal wealth.
Better institutions & civic life	Stronger democratic institutions, participation, and trust in government; changes to political or economic institutions, including shifts in economic system; less war and international conflict; a healthier, more trustworthy information environment.
Other	Any economy-wide or personal hope not covered by the categories above.

Table A.1: Ten-year vision themes and definitions. We ask survey respondents what they hope an AI-transformed economy will look like in ten years. We classify their free-text responses into the general themes shown here.

[1] Zhao, W., Ren, X., Hessel, J., Cardie, C., Choi, Y., & Deng, Y. (2024). Wildchat: 1m ChatGPT interaction logs in the wild. arXiv preprint arXiv:2405.01470.