An Analysis of Large Language Models for Simulating User Responses in Surveys

Anonymous ACL submission

Abstract

Using Large Language Models (LLMs) to simulate user opinions has received growing attention. Yet LLMs, especially trained with reinforcement learning from human feedback (RLHF), are known to exhibit biases toward dominant viewpoints, raising concerns about their ability to represent users from diverse demographic and cultural backgrounds. In this work, we examine the extent to which LLMs can simulate human responses to cross-domain survey questions and propose two LLM-based approaches: chain-of-thought (COT) prompting and Diverse Claims Generation (CLAIMSIM), which elicits viewpoints from LLM parametric knowledge as contextual input. Experiments on the survey question answering task indicate that, while CLAIM-SIM produces more diverse responses, both approaches struggle to accurately simulate users. Further analysis reveals two key limitations: (1) LLMs tend to maintain fixed viewpoints across varying demographic features, and generate single-perspective claims; and (2) when presented with conflicting claims, LLMs struggle to reason over nuanced differences among demographic features, limiting their ability to adapt responses to specific user profiles.¹

1 Introduction

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The development of large language models (LLMs) has enabled simulating human behavior and replicating individual decision-making processes (Park et al., 2024; Binz and Schulz, 2024; Aher et al., 2023). For example, LLMs have been adopted to design large-scale market surveys and attempt to simulate responses across diverse demographic groups, providing a cost-effective alternative to traditional survey methods (Brand et al., 2024).

Despite their strong potential, LLMs, particularly those trained with reinforcement learning



Figure 1: Top: A survey question answering example where LLMs are instructed to simulate individual user responses over diverse demographic profiles. Middle: We study two LLM-based approaches on this task, COT and CLAIMSIM. Bottom: CLAIMSIM produces more diverse answers, while both approaches struggle to simulate users accurately (slightly above random).

from human feedback (RLHF) (Ouyang et al., 2022), are known to exhibit significant bias issues (Schramowski et al., 2022; Messeri and Crockett, 2024; Hu et al., 2024). This is especially pronounced when interacting with underrepresented demographic or cultural groups (Wang et al., 2025; Santurkar et al., 2023). For instance, Wang et al. (2024) argues that LLM responses across different languages tend to align more closely with English-speaking cultural norms.

In this study, we systematically evaluate to what extent LLMs simulate human responses to survey questions, particularly in datasets like the World Values Survey (World Values Survey, 2020) where respondents exhibit diverse and complex demographic profiles. As an example in Figure 1, LLMs

¹Our code and data are available at https://github/ anonymous.

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are instructed to simulate a Christian male user with a lower level of education, and to answer a gender related survey question.

We explore two categories of LLM-based approaches. First, we use chain-of-thought prompting (CoT) (Wei et al., 2022) to test LLMs' capability of reasoning over user demographic features and simulating the answers accordingly. We further hypothesize that eliciting multiple viewpoints from LLM parametric knowledge as context leads to more comprehensive reasoning over diverse demographic features. Therefore, we present a two-step pipeline (CLAIMSIM): (1) Claims Generator: for each demographic feature, the LLM generates diverse claims and summarizes them, with instructions to explicitly highlight consistencies and contradictions; (2) Answer Generator: the summaries across all demographic features are used as additional context for the final answer simulation.

We experiment on randomly selected individuals and their survey answers drawn from the three domains: gender, politics, and religion. The results indicate that compared with COT, CLAIM-SIM provide more diverse answer distributions. By eliciting multiple claims, it encourages LLMs to consider a broader range of perspectives, resulting in more balanced responses. However, both approaches struggle to accurately simulate users. Our fine-grained analysis reveals that LLMs fail to reason over conflicting claims; and more importantly, for 50% of the survey questions, the claims generated by CLAIMSIM reflect a single-viewed opinion, regardless of demographic variation. Our findings reveal a fundamental limitation in LLMs' ability to simulate user behavior: RLHF can lead to the entrenchment of certain viewpoints, therefore resistant to change across different contexts.

2 Method

This section first introduces the task formulation of survey question answering (§2.1), followed by two approaches, chain-of-thought prompting (§2.2), and CLAIMSIM (§2.3).

2.1 **Task Formulation**

We formulate the task of survey question answering as follows: The input consists of a tuple of (q, A, D), where q refers to a multiple-choice ques-102 tion about opinions, A refers to the answer candi-103 dates, and D refers to a target individual's basic demographic profile, which includes attributes such 105

as sex, birth decade, and religion, among others. 106 The objective is to instruct an LLM to simulate 107 the perspective of the individual with the provided 108 demographic background: 109

$$\phi_{LLM}(q, A, D) \Rightarrow a,$$
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where $a \in A$ is the most probable answer selected by an LLM.

Chain-of-thought Prompting 2.2

Our first approach uses chain-of-thought prompting (Wei et al., 2022) to guide LLMs in answering survey questions. Given a question q and a set of demographic features D, an LLM is prompted to first articulate its reasoning process by considering and integrating input features, and then to generate an answer *a* based on that reasoning.

CLAIMSIM: Simulating Users with 2.3 **Diverse Claims Generation**

We hypothesize that generating claims elicited from LLM parametric knowledge for each individual demographic feature as additional context could help mitigate model bias, as variations across features often lead to conflicting opinions. To implement this idea, we prompt LLMs to generate a set of representative claims $C_i = \{c_1, c_2, ..., c_n\}$ for each demographic feature D_i based on query q:

$$\phi_{LLM}(q, D_i) \Rightarrow C_i,$$
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The LLMs are then instructed to summarize these claims C_i into a single output S_i :

$$\phi_{LLM}(C_i) \Rightarrow S_i,$$
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Our final answer prediction a is grounded on the input query q, demographic information D, and aggregated claim summaries $S = \{S_1, S_2, \dots S_k\}$:

$$\phi_{LLM}(q, A, D, S) \Rightarrow a.$$
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Diverse Claims Generation. For each demographic feature, we first prompt the LLM to generate claims C_i in response to the corresponding survey question q. To ensure diverse perspectives, we sample five separate responses, each producing one claim. We then instruct the LLM to summarize these claims into a single output S_i , explicitly highlighting both consistencies and contradictions within responses.



Figure 2: Comparison of answer distributions averaged across domains for COT and CLAIMSIM (left to right with GPT-40-MINI, LLAMA 4 and QWEN 3). CLAIMSIM leads to more diverse answer distributions.

Answer Prediction. With several claim summaries derived from different demographic features, we then prompt the LLM to answer the corresponding survey question. Using chain-of-thought prompting, we guide the model to consider both the demographic information and the potentially conflicting claims, to more accurately simulate a user with a specific demographic background.

3 Experiments

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This section first presents the dataset and experiment settings (§3.1 & 3.2). Then we provide detailed results (§3.3) and analysis (§3.4) for our survey question answering task.

3.1 Dataset

Our dataset is derived from the World Values Survey (WVS), a comprehensive global database that captures a broad range of demographic attributes and value-based attitudes across diverse populations (World Values Survey, 2020). For our experiments, we focus on three domains with the presence of strongest opinions—gender, politics, and religion—as a representative subset, covering a total of 16 questions. We randomly sample 100 individuals from the full dataset for evaluation, ensuring a high degree of demographic diversity within the selected subset.

3.2 Setups

175ModelsWe evaluate several LLMs, including the176proprietary model GPT-40-MINI (OpenAI, 2025),177and open-source models LLAMA 4 17B (Meta178AI, 2025) and QWEN 3 235B-A22B (Qwen Team,1792025). For the proprietary model, experiments are180conducted via the OpenAI API. The open-source181models are accessed through Together AI's API182service. For all experiments, the temperature pa-183rameter is is set to 0.7 whenever available.

Base Model	Variant	Gender		Politics		Religion	
		Acc	B-Acc	Acc	B-Acc	Acc	B-Acc
GPT-40-MINI	CoT ClaimSim	$\left \begin{array}{c} 0.40\\ 0.30\end{array}\right $		0.41 0.41		$\begin{vmatrix} 0.34 \\ 0.32 \end{vmatrix}$	$\begin{array}{c} 0.56 \\ 0.56 \end{array}$
QWEN 3	CoT ClaimSim	$\left \begin{array}{c} 0.41\\ 0.36\end{array}\right $	$\begin{array}{c} 0.66 \\ 0.66 \end{array}$	$\begin{vmatrix} 0.37 \\ 0.37 \end{vmatrix}$	$\begin{array}{c} 0.68 \\ 0.67 \end{array}$	$\begin{array}{c} 0.31 \\ 0.30 \end{array}$	$0.59 \\ 0.60$
Llama 4	CoT ClaimSim	0.42 0.40	0.65 0.61	$\begin{vmatrix} 0.32 \\ 0.29 \end{vmatrix}$	$\begin{array}{c} 0.70 \\ 0.63 \end{array}$	0.31 0.36	0.57 0.62

Table 1: Performance comparison between base LLMs using Chain-of-Thought prompting and CLAIMSIM built on each LLM.

Metrics Our primary evaluation metric is Answer Accuracy (**Acc**), defined as the exact match with the gold answer option. We also report Binary Answer Accuracy (**B-Acc**), which maps nuanced labels (e.g., strongly agree and agree) into two attitudinal categories: agree and disagree. Additionally, we measure **Diversity** by analyzing the distribution of predicted answers with a histogram.

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3.3 Main Results

CLAIMSIM predictions are more diverse. As shown in Figure 2, the answer distributions generated by COT are heavily concentrated around specific options, with this effect most pronounced in the LLAMA 4 model. This suggests that LLMs tend to reflect a unified viewpoint, even when provided with diverse demographic features. In contrast, CLAIMSIM produces more diverse answer distributions by explicitly instructing LLMs to elicit multiple perspectives through diverse claim generation.

Nuanced difference between CLAIMSIM and203COT within the opinion category.As shownin Table 1, the performance gap between COT205and CLAIMSIM is notably smaller under binary206labels (B-Acc) compared to finer-grained labels207(Acc). This suggests that prompting LLMs to generate diverse claims primarily results in nuanced208shifts within the same opinion category, e.g., from210

Question: A university educat	tion is more important for a boy than for a girl.
(A) Strongly Agree	1 2 6
Demographic Inf	formation:
	ional level - Middle; Year of birth - 1970s
True Label: <u>(B) A</u> g	gree
CoT Prediction:	
Answer: (D) Stron:	gly Disagree
Reasoning: As a m	ale from 1970s with middle education, I value education
equally for both ger	nders, despite past societal norms favoring boys.
CLAIMSIM Pre	diction:
Answer: (D) Disag	ree
Claim for sex: Male	e
	from a university education due to societal expectations.
Claim for education	
Equal importance o	of university education for both boys and girls is supported.
Reasoning:	
	iddle-level education, I believe both boys and girls deserve versity education, regardless of societal expectations.
equal access to univ	versity education, regardless of societal expectations.

Figure 3: A case study showing LLMs fail to reason over conflicting evidence about opinions.

Question: Being a housewife is just as fulfilling as working for pay. (A) Strongly Agree (B) Agree (C) Disagree (D) Strongly Disagree					
Demographic Information: Sex - Female; Educational level - Lower; Religion: Protestant					
True Label: (B) Agree					
CoT Prediction: Answer: (<u>A) Strongly Agree</u>					
Reasoning: As a North American Protestant woman with lower educational attainment, I find deep fulfillment in managing my home.					
CLAIMSIM Prediction: Answer: (A) Strongly Agree					
<u>Claim for sex: Female</u> Being a housewife can be fulfilling by highlighting personal flexibility. <u>Claim for education: Lower</u> Housewifery is a legitimate choice, emphasizing its emotional rewards.					
Reasoning: As a Protestant woman with lower education, being a housewife has shown me the deep fulfillment through nurturing family.					

Figure 4: A case study indicating LLMs produce unified viewpoints regardless of attributes.

Strongly Disagree to Disagree. Fundamentally altering the model's stance may require direct interventions, such as instruction fine-tuning or RLHF.

None of the approaches provide accurate user
simulations. Both COT and CLAIMSIM achieve
slightly above random accuracy across different
backbone LLMs (Table 1), rendering the inherent
difficulty of the task. In the next section, we conduct a fine-grained analysis with case studies to
better understand two key limitations.

221 3.4 Why LLMs struggle to simulate users?

222LLMs fail to reason over conflicting evidence223about opinions. As shown in Figure 3, although224CLAIMSIM elicits conflicting claims based on the225sex and education features, LLMs fail to reason226over these contradictions and generate the expected227response for the target user. This remains a chal-

lenging research problem, as it requires LLMs to capture subtle relationships between demographic attributes. For example, recognizing that individuals born in the 1970s with a mid-level education may be slightly less opposed to the given view. 228

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LLMs produce unified viewpoints regardless demographic attributes. As shown in Figure 4, LLMs consistently generate claims that agree with the survey question, even when prompted with varying demographic profiles. Our manual analysis reveals that this pattern occurs in 50% of the survey questions tested. While RLHF significantly helps align LLMs with widely accepted moral values, it also fundamentally limits their ability to simulate users whose viewpoints diverge from these norms.

4 Related Work

Large Language Models (LLMs) have shown strong potential in human simulation tasks (Sreedhar and Chilton, 2024; Binz et al., 2025), especially in the context of social science research involving survey questions that capture personal opinions and group-level perspectives (Cao et al., 2025; Sun et al., 2024; Kim and Lee, 2024). For instance, Cao et al. (2025) explore how LLMs can simulate national-level responses using supervised fine-tuning (SFT) to align model outputs with realworld distributions. At the individual level, Park et al. (2024) propose a generative agent framework that integrates demographic profiles and interview scripts to answer survey questions. In contrast, our work focuses on investigating whether LLMs can elicit internal knowledge purely based on individual demographic attributes.

5 Discussion

During the elicitation of contradicting claims, we observed that the diversity of the claims are still largely constrained to LLMs' parametric knowledge. Future research shall look into effective ways for diverse claim elicitations, such as prompt optimizations (Pryzant et al., 2023). We also note that answer accuracy is not the only golden metric, we found that a higher overall accuracy does not guarantee a well-aligned answer distributions. In fact, we observed COT and CLAIMSIM are both insufficient to reflect opinions from nuanced demographic groups, highlighting the needs for further explorations on how to balance between contradicting claims and reasoning accuracy.

276 Limitations

In this work, we did not study the consistency of individual-level opinions and simulation of decision-making across multiple domains, but we denote this as important perspective to realize user simulation that shall be investigated in future work. We note that our experiments explored three representitve and recent LLMs, but did not include reasoning models such as OpenAI O3, Deepseek R1. This involves substiantially longer inference time and API cost, but may benefit both methods with more comprehensive claim generation and advanced reasoning capabilty. Also due to resource constraints, we did not explore fine-tuning or RLHF existing LLMs, despite we hypothesize that simple post-training approaches cannot tackle these limi-291 tations. We also notice hat scaling up the domains 292 and demographic nuances of simulated users could also bring new findings. We leave these comparisions and experiments for future work.

Ethics Statement

This work investigates the reliability and associated 297 risks of large language models (LLMs) in simulat-298 ing user opinions. We identify key limitations in existing approaches and demonstrate improvements in opinion diversity using our proposed method, CLAIMSIM. All experiments were conducted using publicly available LLMs or APIs, and no systems 303 were deployed in real-world settings. Given the broader applications and societal implications of this task, we recognize several ethical concerns, including the risks of hallucinated content, overconfident claims, and the amplification of harmful 309 biases. These issues, if left unaddressed, could lead to significant misuse or harm. Our approach, 310 CLAIMSIM, is designed to mitigate these risks by promoting diversity and reducing bias, with the goal of supporting the development of safer and 313 more trustworthy LLM applications in Social NLP. 314 However, we acknowledge that limitations remain, 315 and further investigation is necessary to fully understand and address the ethical and practical chal-317 lenges posed by this work.

References

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Gati V Aher, Rosa I Arriaga, and Adam Tauman Kalai.
2023. Using large language models to simulate multiple humans and replicate human subject studies.
In *International Conference on Machine Learning*, pages 337–371. PMLR.

Marcel Binz, Elif Akata, Matthias Bethge, Franziska Brändle, Fred Callaway, Julian Coda-Forno, Peter Dayan, Can Demircan, Maria K. Eckstein, Noémi Éltető, Thomas L. Griffiths, Susanne Haridi, Akshay K. Jagadish, Li Ji-An, Alexander Kipnis, Sreejan Kumar, Tobias Ludwig, Marvin Mathony, Marcelo Mattar, Alireza Modirshanechi, Surabhi S. Nath, Joshua C. Peterson, Milena Rmus, Evan M. Russek, Tankred Saanum, Johannes A. Schubert, Luca M. Schulze Buschoff, Nishad Singhi, Xin Sui, Mirko Thalmann, Fabian Theis, Vuong Truong, Vishaal Udandarao, Konstantinos Voudouris, Robert Wilson, Kristin Witte, Shuchen Wu, Dirk Wulff, Huadong Xiong, and Eric Schulz. 2025. Centaur: a foundation model of human cognition. *Preprint*, arXiv:2410.20268.

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- Marcel Binz and Eric Schulz. 2024. Turning large language models into cognitive models. In *The Twelfth International Conference on Learning Representations*.
- James Brand, Ayelet Israeli, and Donald Ngwe. 2024. Using llms for market research. Working Paper 23-062, Harvard Business School Marketing Unit. Last revised: 29 July 2024. 46 pages.
- Yong Cao, Haijiang Liu, Arnav Arora, Isabelle Augenstein, Paul Röttger, and Daniel Hershcovich. 2025. Specializing large language models to simulate survey response distributions for global populations. *arXiv preprint arXiv:2502.07068*.
- Tiancheng Hu, Yara Kyrychenko, Steve Rathje, Nigel Collier, Sander van der Linden, and Jon Roozenbeek. 2024. Generative language models exhibit social identity biases. arxiv [preprint](2023).
- Junsol Kim and Byungkyu Lee. 2024. Aiaugmented surveys: Leveraging large language models and surveys for opinion prediction. *Preprint*, arXiv:2305.09620.
- Lisa Messeri and MJ Crockett. 2024. Artificial intelligence and illusions of understanding in scientific research. *Nature*, 627(8002):49–58.
- Meta AI. 2025. The llama 4 herd: The beginning of a new era of natively multimodal ai innovation. Official blog post introducing Llama 4 Scout, Llama 4 Maverick, and Llama 4 Behemoth models.
- OpenAI. 2025. Introducing gpt-4.1 in the api. https: //openai.com/index/gpt-4-1/. A new series of GPT models featuring major improvements on coding, instruction following, and long context—plus our first-ever nano model.
- Long Ouyang, Jeff Wu, Xu Jiang, Diogo Almeida, Carroll L. Wainwright, Pamela Mishkin, Chong Zhang, Sandhini Agarwal, Katarina Slama, Alex Ray, John Schulman, Jacob Hilton, Fraser Kelton, Luke Miller, Maddie Simens, Amanda Askell, Peter Welinder, Paul Christiano, Jan Leike, and Ryan Lowe. 2022. Training language models to follow instructions with human feedback. In *Proceedings of the 36th International Conference on Neural Information Processing*

- *Systems*, NIPS '22, Red Hook, NY, USA. Curran Associates Inc.
- Joon Sung Park, Carolyn Q. Zou, Aaron Shaw, Benjamin Mako Hill, Carrie Cai, Meredith Ringel Morris, Robb Willer, Percy Liang, and Michael S. Bernstein. 2024. Generative agent simulations of 1,000 people. *arXiv:2411.10109*.
- Reid Pryzant, Dan Iter, Jerry Li, Yin Lee, Chenguang Zhu, and Michael Zeng. 2023. Automatic prompt optimization with "gradient descent" and beam search. In Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing, pages 7957–7968, Singapore. Association for Computational Linguistics.

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- Qwen Team. 2025. Qwen3: Think deeper, act faster. Official blog post introducing Qwen3 models and their technical details.
- Shibani Santurkar, Esin Durmus, Faisal Ladhak, Cinoo Lee, Percy Liang, and Tatsunori Hashimoto. 2023.
 Whose opinions do language models reflect? *arXiv* preprint arXiv:2303.17548.
- Patrick Schramowski, Ceyda Turan, Nora Andersen, Xiang Shao, Bernhard Schölkopf, Francis Herbert, Arun Mahendran, Oliver Hinz, and Kristian Kersting. 2022. Large language models have general valuebased biases. *Patterns*, 3(7):100537.
- Karthik Sreedhar and Lydia Chilton. 2024. Simulating human strategic behavior: Comparing single and multi-agent llms. *Preprint*, arXiv:2402.08189.
- Seungjong Sun, Eungu Lee, Dongyan Nan, Xiangying Zhao, Wonbyung Lee, Bernard J Jansen, and Jang Hyun Kim. 2024. Random silicon sampling: Simulating human sub-population opinion using a large language model based on grouplevel demographic information. *arXiv preprint arXiv:2402.18144*.
- Angelina Wang, Jamie Morgenstern, and John P Dickerson. 2025. Large language models that replace human participants can harmfully misportray and flatten identity groups. *Nature Machine Intelligence*, pages 1–12.
- Wenxuan Wang, Wenxiang Jiao, Jingyuan Huang, Ruyi Dai, Jen-tse Huang, Zhaopeng Tu, and Michael Lyu. 2024. Not all countries celebrate thanksgiving: On the cultural dominance in large language models. In *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 6349–6384.
- Jason Wei, Xuezhi Wang, Dale Schuurmans, Maarten Bosma, Brian Ichter, Fei Xia, Ed Chi, Quoc Le, and Denny Zhou. 2022. Chain-of-thought prompting elicits reasoning in large language models. *Advances in Neural Information Processing Systems*, 35:24824– 24837.
- World Values Survey. 2020. World values survey: Wave 7 (2017-2020). Accessed: 2024-09-11.

A Distributions Across Three Domains

Figure 5 presents the response distributions of three
LLMs across the domains of Gender, Politics, and
Religion. Each subplot illustrates how model outputs vary in opinion strength and direction within
each domain.

B Prompt Template for CoT

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Here we include the prompt template for the CoT method (see Figure 6), prompt template for generating summaries with 5 claims (see Figure 8) and prompt template for final generation (see Figure 9).

C Prompt Template for CLAIMSIM

Here we include the prompt template for the
CLAIMSIM method, including the template to generate 5 claims for each of demographic features
(see Figure 7).



Figure 5: Response distributions of three LLMs across the Gender, Politics, and Religion domains.

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# Personal Demographic Information
The respondent's demographic details are as follows:
{% for category, value in demo_infos.items() %}
- **{{ category }}**: {{ value }}
{% endfor %}
```

Task

Imagine you are the respondent. Based on your demographic background, thoughtfully answer the following question under the topic of **{{ domain }}**. Before selecting your final answer, you must **reason step-by-step** to demonstrate your thought process.

Instruction
{{ instruction }}

Question
{{ question }}

Label Choices
You must choose **exactly one** label from the options below:
{{ labels }}

Response Format

- Label: The selected label from the provided choices.

- Reasoning: A detailed step-by-step explanation leading to your choice, following a chain-of-thought approach.

Important: If you do not provide a detailed reasoning step-by-step, your answer will be considered incomplete.

Figure 6: Response Generation Template for CoT

Instruction

Suppose you are a respondent with the following demographic information: - {{ feature_category }}: {{ feature_label }}

- # Related Question
- Question: {{ question }}

Task

As someone with this specific background, generate a rich and diverse set of opinions in response to the question above. Every viewpoint must be grounded in your identity and personal values as shaped by the demographic feature provided. You should reflect both real-world experiences and idealistic thinking when forming your opinions.

- Topic (e.g., the keyword of the opinion)
- Claim (A clear expression of the viewpoint)
- Evidence_for_claim (e.g., the evidence to support the claim)
- Counterpoint (the opposite of the viewpoint)
- Evidence_for_counterpoint (e.g., the evidence to support the counterpoint)

List **5** most representation opinion in plain text.

Output Format (Required)

- **Claim**: Your claim for this question.

Figure 7: Template for CLAIMSIM Generating 5 Claims for Each of Demographic Features

Task

Below are some claims from the respondent with the following demographic feature: - {{ feature_category }}: {{ feature_label }}

Please provide a concise summary that captures the key perspectives expressed in the claims.

Claims

{% for claim in claims %} - **Claim**: {{ claim }} {% endfor %}

Output Format (Required)

- Summary: Provide a 2-3 sentence synthesis of the respondent's views, clearly identifying key themes, contradictions, or tensions. Explicitly state how many claims support one perspective versus how many support an opposing or contrasting view, if applicable.

Figure 8: Template for CLAIMSIM Generating Summaries with 5 Claims

Demographic Profile

Below is a simulated demographic profile. Please respond as if you belong to this background:

{% for category, value in demo_infos.items() %} - **{{ category }}**: {{ value }} {% endfor %}

Context

You will evaluate claims and counterpoints that reflect opinions or beliefs people might hold in the field of **{{ domain }}**. Each pair is designed to capture a possible tension or debate that may arise based on demographic perspectives.

These statements are *hypothetical and intentionally diverse* to explore how views might vary across backgrounds. Your task is not to judge them by factual accuracy, but to engage thoughtfully based on your assigned profile.

Statements

For each of the following, consider both the claim and the counterpoint: {% for claim, counterpoint in claims.items() %} - **Claim**: {{ claim }} - **Counterpoint**: "{{ counterpoint }}" {% endfor %}

Task

You are asked to select the position that would most closely align with the simulated demographic perspective above. This is a reasoned choice based on how someone from this profile might respond. In doing so, carefully consider how the specific claims made in the prompt may influence their reasoning. At the same time, critically reflect on potential counterpoints—how someone from this demographic might still be persuaded by alternative views. Your answer should weigh these tensions and offer a thoughtful justification.

```
# Instruction
{{ instruction }}
```

Question {{ question }}

Label Choices
Choose **exactly one** of the following:
{{ labels }}

Response Format (Required)

- **Label**: your selected label from above

- **Reasoning**: Step-by-step explanation of how the claims, counterpoints and simulated demographic background influence the choice. Be specific and avoid generic justifications.

> 1 Incomplete responses without detailed reasoning will be considered invalid for this task.

Figure 9: Template for Generating Final Results with CLAIMSIM