

# CCT416 Final Research Project Mapping Public Sentiment On Canada's Housing

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# **Abstract**

The escalating housing costs in Canada have sparked widespread concern, impacting both homeowners and renters alike. This study investigates public sentiment regarding housing costs in Canada by analyzing social media data from two prominent Reddit communities: r/CanadaHousing and r/Canada. The research question guiding this study is: "What is the opinion of social media users regarding housing costs in Canada?" To address this question, sentiment analysis techniques were applied to categorize posts into positive, negative, or neutral sentiments, while topic modelling was used to identify common themes within the discussions. The findings reveal a trending sense of dissatisfaction and concern among social media users regarding the challenges of housing affordability in Canada. Negative sentiments dominate the discussions, with common themes including pricing, government policies, and regional disparities. These findings align with existing literature on housing affordability challenges in Canada and provide meaningful observations that can inform policy decisions and public ideas on this critical issue.

# Introduction

The escalating housing costs in Canada have become a topic of national concern. With home prices up by more than 35% in just four years, the affordability of housing is a significant issue affecting a large portion of the population (Armstrong, 2024). This issue is not only confined to homeowners but also impacts renters, with rental prices continually hitting record highs. Given the widespread impact of this issue, it is crucial to understand the public sentiment towards housing costs in Canada. Social media platforms, where people freely express their opinions and concerns, provide a rich source of data for this analysis. This motivated the selection of the case for this study.

The research question for this study is: "What is the opinion of social media users regarding housing costs in Canada?" This question aims to contribute to the ongoing debates about housing affordability in Canada by providing insights into public sentiment derived from social media data. The study will analyze social media posts related to housing costs in Canada, using sentiment analysis techniques to categorize the posts into positive, negative, or neutral sentiments. The findings from this research could potentially inform policy decisions and stimulate further academic discussions on this topic.

# **Literature Review**

The existing literature pertinent to the research question concerning social media users' perspectives on housing costs in Canada offers a nuanced understanding of the multifaceted challenges surrounding housing affordability and its societal ramifications. Farhan's (2023) examination of the Canadian housing affordability crisis illuminates the intricate interplay between economic, political, and social factors, showcasing how both government and bankers benefit from the existing shortage of residential property, impeding effective solutions to the housing dilemma. Farhan (2023) also found that young Canadians now face the dilemma of renting or owning a home, and thus suggests that Canadian leadership should facilitate the supply of residential property by removing barriers and restrictions and offering affordable land for developers. This aligns with the findings of Ramage et al. (2021), who delve into the experiences of tenants in affordable housing units in Calgary, emphasizing that there is a need for more holistic and

tailored interventions that address the economic, social, and health inequities of affordable housing tenants, as well as more robust and participatory policy-making that involves the voices of those with lived experience. Their work underscores the importance of considering broader economic and social disparities in crafting housing policies.

Kipfer and Sotomayor's (2024) critique of market housing solutionism highlights systemic capitalism issues that worsen housing problems, with homelessness rates doubling since the 1980s and public housing waiting lists growing. Many households spend a large income portion on housing, affecting tenants disproportionately. These issues are rooted in capitalism's systemic problems, where profit motives often prioritize financial gain over housing stability. While solutions often call for urban planning reforms, it's crucial to recognize capitalism's hidden contradictions that worsen these challenges, leading to increased social crises and housing access inequalities. Kipfer and Sotomayor emphasize the need for comprehensive solutions that prioritize housing stability, aligning with the research question on social media users' opinions on Canadian housing costs. Thus, stressing the importance of addressing housing insecurity and inequality.

Moreover, Revington and August (2019) delve into the concept of financialization, revealing how the commodification of real estate assets prioritizes investor profits over tenant well-being, thereby exacerbating inequalities in access to stable housing. Revington and August (2019) emphasize how finance has come to dominate various aspects of economies, firms, states, and households, leading to a structural transformation. Within this context, real estate assets have become subject to financial logics and practices, with properties being treated primarily as financial assets rather than as homes or community spaces.

Furthermore, Smith's (1983) historical analysis offers valuable context by tracing the evolution of Canada's housing landscape, from a historically well-housed state to contemporary challenges exacerbated by policy shifts and economic restructuring. Smith (1983) provides a detailed account of the transition from a thriving private rental sector to government-supported homeownership and public rental sectors, and the restructuring of the tax system in 1972, both of which have had long-term implications on housing affordability.

Interestingly enough, Garcia and Chen (2022) investigate how social media platforms influence the perceptions and attitudes of Canadian millennials towards housing affordability. Through analyzing discussions, opinions, and narratives on platforms like Twitter and Reddit, they provide insights into how social media discourse reflects and shapes public sentiment on housing costs.

Wang and Li (2023) also employ advanced computational methods to explore public discourse on housing costs in Canada across various social media platforms. Using sentiment analysis and topic modelling, they uncover prevalent themes, concerns, and attitudes among social media users regarding housing affordability, highlighting the diverse range of opinions and perspectives within the online community.

Finally, Nguyen and Patel (2024) examine the role of social media as a tool for advocacy and mobilization around housing affordability in Canada. Through qualitative interviews and quantitative analysis of social media engagement metrics, they assess the effectiveness of social media campaigns in

raising awareness, influencing policy discourse, and mobilizing public support for affordable housing initiatives.

In conclusion, our research question, "What is the opinion of social media users regarding housing costs in Canada?" extends existing literature by incorporating public sentiment perspectives, which has been largely unexplored. The works of Farhan (2023), Ramage et al. (2021), Kipfer and Sotomayor (2024), Revington and August (2019), and Smith (1983) provide a comprehensive understanding of the multifaceted challenges surrounding housing affordability in Canada. However, they primarily focus on the perspectives of policymakers, economists, and tenants. By exploring the views of social media users, this research can uncover new dimensions of housing affordability, potentially revealing how public sentiment aligns and diverges from the findings of these studies. This approach doesn't refute existing findings, but enriches them, offering a more holistic understanding of housing affordability in Canada.

# **Data and Methods**

## **Data Collection**

The data for this analysis was collected from two subreddits on Reddit: CanadaHousing and Canada. The data was collected using the Python Reddit API Wrapper (PRAW), which allows for easy access to Reddit's API for data scraping purposes. Additionally, the data collection process involved fetching the top 100 posts from each subreddit. The data was collected on March 28-30, ensuring that the analysis is based on the most recent and relevant posts. **NOTE:** All Code Used In Methods 1 & 2 Are Provided In Separate Jupyter Submission Files (Without Our Reddit API Keys Of Course).

# **Method 1: Sentiment Analysis**

#### **Summary**

For this analysis, we looked at 2 subreddits and collected multiple posts and their titles in order to analyze their overall sentiment. We first collected the first 100 posts from r/canadahousing and turned them into a dataset with categories including post title, score, content, number of comments, URL, and date. We then generated a word cloud (Figure 1) to get an understanding of key terms and phrases that are evident across the titles of these posts, and tried to interpret them.

After this, we used a sentiment intensity analyzer on the dataframe, creating a new column that categorizes the titles based on their score. We then plotted these results on a scatterplot (Figure 2), using appropriate colours to represent the sentiment classification. Red for a negative classification, blue for a neutral one, and green for a positive one. We decided to graph the score and the number of comments, as posts with more of each represent a more active post, so the sentiment classification of that becomes more significant.

To remove any sort of bias or inaccuracy, we analyzed another community as well, r/Canada, which has over 2.4 million members. We did the same thing, creating a dataframe with all the same topics, but this time we filtered the posts to only include the ones that talked about housing and also increased the post

count from 100 to 1000 since the initial number of posts did not provide enough data for a comprehensive analysis. From this, we were able to retrieve around 30 relevant posts, and constructed the dataframe.

We then created a word cloud (Figure 3) and scatterplot (Figure 4) as before, to see if there would be a discrepancy between these one and the previous graphs.

Overall, the sentiment analysis method provided a comprehensive understanding of the overall sentiment of the posts in the r/CanadaHousing and r/Canada subreddits. By focusing on the sentiment of the titles and content of the posts, we were able to gain insights into the general attitudes and emotions of the subreddit communities. The use of word clouds helped us identify key terms and phrases, while the sentiment intensity analyzer allowed us to categorize and visualize the sentiments in a meaningful way.

## Produced Graphs For r/CanadaHousing Subreddit



Figure 1. Word Cloud Representing r/CanadaHousing Post Titles

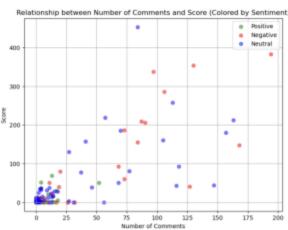


Figure 2. Relationship Between Number of Comments and Score For r/CanadaHousing (Colored By Sentiment)

## Produced Graphs For r/Canada Subreddit



Figure 3. Word Cloud Representing r/Canada Post Titles

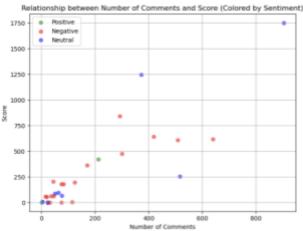


Figure 4. Relationship Between Number of Comments and Score For riCanada (Colored By Sentiment)

## **Method 2: Topic Modeling**

#### **Summary**

For this method, we focused on the same two subreddits, r/CanadaHousing and r/Canada, and collected a significant number of posts to perform topic modelling. We initially collected the top 100 posts within the year from r/CanadaHousing, but had to increase to 1000 for r/Canada since the initial number of posts did not provide enough data for a comprehensive topic modelling analysis. Additionally, for r/CanadaHousing, we didn't have to do any filtering since the whole subreddit is dedicated to Canada's housing, but we had to filter the posts in r/Canada for those that contained the keyword 'housing' in the title or content. The variables included in our analysis for both subreddits were the post's title, score, content, number of comments, post URL, and full URL.

The first step in our analysis was to preprocess the text content of the posts. We tokenized the text, converted tokens to lowercase, removed non-alphanumeric characters, removed stopwords, and stemmed the tokens using the Porter Stemmer. This preprocessing step was crucial to reduce the dimensionality of our data and to focus on the most meaningful words.

Next, we used the Latent Dirichlet Allocation (LDA) model for topic modeling. We chose LDA because it is a widely used topic modeling technique that can effectively identify hidden topics in large volumes of text. We set the number of topics to 10 and created a dictionary and a document-term matrix from the preprocessed text. We then ran the LDA model on this corpus.

To visualize the topics identified by the LDA model, we created bar plots of the top words for each topic and their probabilities (Figure 5 and Figure 9). We also calculated and plotted the average topic proportions for each topic (Figure 6 and Figure 10). These visualizations helped us understand the most prevalent topics and their relevance in the dataset.

In addition, we identified and printed the top 2 posts associated with topic 5 for r/CanadaHousing and topic 3 for r/Canada, as they had the highest average proportion in comparison to the other topics. This allowed us to see which posts were most representative of the most prevalent topic, and what exactly they discussed. We found this particularly useful for understanding the context and content of the topics. However, it's important to note that for r/CanadaHousing, we were able to print the 2 posts without problems (Figure 7), but we had to print the full URL for r/Canada instead, and then go to the posts directly (Figure 11), as the 2 top posts weren't texts, but rather links to articles.

Finally, we used 'pyLDAvis' to create an interactive visualization of the topics (Figure 8 and Figure 12). This provided a more intuitive understanding of the topics and their relationships with each other.

Overall, the topic modeling method allowed us to uncover the underlying topics in the Reddit posts and understand their relevance and relationships. This method was particularly useful for analyzing large volumes of text data and provided valuable insights into the discussions happening in the r/CanadaHousing and r/Canada subreddits.

## Produced Graphs For r/CanadaHousing Subreddit

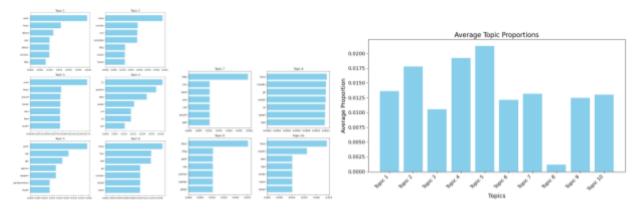


Figure 5. Top Words In Each Topic From LDA Analysis For r/CanadaHousing

Figure 6. Average Proportions of Topics From LDA Analysis For r/CanadaHousing



Figure 7. Top 2 Posts Associated With Topic 5 From LDA Analysis For r/CanadaHousing

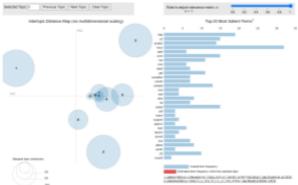


Figure 8. Interactive Visualization of Topic Model From LDA Analysis For r/CanadaHousing

## Produced Graphs For r/Canada Subreddit

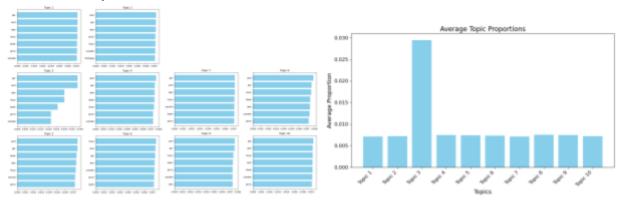


Figure 9. Top Words In Each Topic From LDA Analysis For r/Canada

Figure 10. Average Proportions of Topics From LDA Analysis For r/Canada



Figure 11. Top 2 Documents Associated With Topic 3 From LDA Analysis For r/Canadi

Figure 12. Interactive Visualization of Topic Model From LDA Analysis For riCanada.

# Results

## **Method 1: Sentiment Analysis**

#### Analyzing Graphs For r/CanadaHousing Subreddit

The word cloud (Figure 1) from r/CanadaHousing prominently displayed words related to housing such as "housing", "house", and "condo", indicating frequent discussions on these topics. The geographic terms like "Canada," "Ontario," and "Vancouver" also highlight the regional focus of these discussions. Other terms like "crisis", "affordable", and "market" suggest ongoing dialogues about housing affordability and market conditions



Figure 1. Word Cloud Representing r/CanadaHousing Post Titles

in Canada. Additionally, the size of "landlord", "rent", and "house", is about the same, suggesting that it's not just about buying a new house, but even renting and living under a landlord is troublesome. This visual representation of key themes and topics within the subreddit underscores a strong focus on housing issues within specific regions of Canada. The presence of words like "crisis" and "affordable" further implies that these discussions often center around the challenges of housing affordability and the state of the housing market, reflecting the concerns and interests of the subreddit's community.

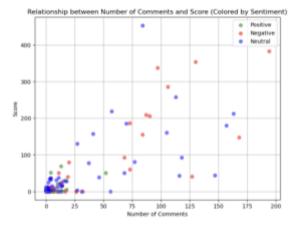


Figure 2. Relationship Between Number of Comments and Score For r/CanadaHousing (Colored By Sentiment)

Analyzing the results of Figure 2, we can see that the two most dominant classifications are negative and neutral, with there not being a single positive post higher on the y-axis. In fact, the post with the most comments was negative, indicating passion and strong negative feelings from users about the topic. Even throughout the rest of the graph, posts with higher scores are generally negative, and only about 9/100 posts were positive, which is less than 10%.

## **Produced Graphs For r/Canada Subreddit**

Glancing over this word cloud from r/Canada (Figure 3), we can see that words like "Canada," "housing," and "government" are larger and more prominent, indicating they are common topics. Other visible words include "Ottawa," "federal," "affordable," and "program," among others, giving insights into sub-topics of interest. Infact, the prominence of words related to housing and government indicates a strong focus on these issues within the subreddit. The presence of words like "affordable" and "program" further suggests that



Figure 3. Word Cloud Representing r/Canada Post Titles

these discussions often revolve around the challenges of housing affordability and government programs. Interestingly, words like "crisis" and "threatens" stand out even more in this word cloud, showing that while the r/CanadaHousing subreddit naturally talks about the struggle with housing, the people in the r/Canada subreddit view it with an even more negative connotation. This could be interpreted as a reflection of the concerns and interests of the subreddit's community.

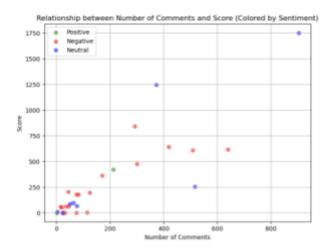


Figure 4. Relationship Between Number of Comments and Score For r/Canada (Colored By Sentiment)

The scatter plot (Figure 4) for the r/Canada subreddit reveals a compelling narrative. Despite an increase in the number of posts from 100 to 1000 for this subredit, the volume of posts is lower, yet the engagement in terms of comments and scores is significantly higher, which is understandable since this subreddit has more members. This suggests that each post garners more attention and interaction. The sentiment of these posts, however, is predominantly negative, with only two exceptions that are positive. These positive outliers are found amidst the sea of negative sentiments, one at lower comment numbers and scores, and another standing alone at higher values. This pattern indicates a more negative connotation

associated with the housing discussions in the r/Canada subreddit compared to the r/CanadaHousing subreddit, suggesting that most of these Reddit members are deeply concerned about the Canadian housing issue.

## **Method 2: Topic Modeling**

## Produced Graphs For r/CanadaHousing Subreddit



Figure 5. Top Words In Each Topic From LDA Analysis For r/CanadaHousing

Figure 5 illustrates the top words associated with each of the ten topics identified in our LDA analysis of the r/CanadaHousing subreddit. The x-axis of each bar graph represents the frequency of words, while the y-axis lists the words themselves. The topics cover a diverse range of areas related to housing. For instance, Topic 2 seems to focus on pricing, with words like "price" and "market" appearing frequently. Topic 5 appears to be about locations, with place names and terms like "city" and "area" being common. Topic 8 seems to discuss types of housing, with words like "apartment", "condo",

and "rent" being prevalent. These results provide a comprehensive overview of the discussions happening in the r/CanadaHousing subreddit, highlighting the key themes and concerns of the community members.

This bar graph, Figure 6, illustrates the average proportions of the ten topics identified in our LDA analysis of the r/CanadaHousing subreddit. The x-axis represents the topics, labeled from Topic 1 to Topic 10, while the y-axis represents the average proportions, ranging from 0.0000 to 0.0200. The graph shows that Topics 4 and 5 have the highest average proportions, indicating that they are the most prevalent topics in the subreddit. On the other hand, Topic 8 has the lowest average proportion, suggesting that it is less frequently discussed.

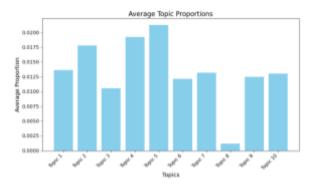


Figure 6. Average Proportions of Topics From LDA Analysis For r/CanadaHousing



Figure 7. Top 2 Posts Associated With Topic 5 From LDA Analysis For r/CanadaHousing

Taking a look at topic 5 since it had the highest average proportion, the two posts shown in Figure 7 are the most representative of Topic 5 in our LDA analysis of the r/CanadaHousing subreddit. These posts, which scored 0.99189 and 0.99108 respectively, provide

valuable insights into the discussions that dominate this topic. The first post (Document 15) discusses the future of housing, expressing concerns about the increasing commonality of larger families living in confined spaces due to unaffordable housing prices. The user criticizes the government for making unfulfillable promises and not acknowledging the severity of the housing crisis. This post provides a

personal perspective on the housing situation, highlighting the challenges many individuals face due to the high cost of housing. The second post (Document 14) shares an anecdote about an American with family ties to Canada. The user contrasts the living conditions between the two countries, implying that he now sees Canada's housing crisis in a more negative light than America, which also has a housing problem. These posts provide a snapshot of the discussions happening in the r/CanadaHousing subreddit, particularly around Topic 5. They highlight the concerns and experiences of community members, offering a deeper understanding of the context and content of this topic.

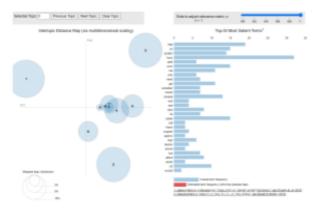


Figure 8. Interactive Visualization of Topic Model From LDA Analysis For r/CanadaHousing

This figure, Figure 8, presents an interactive visualization of the topic model derived from our LDA analysis of the r/CanadaHousing subreddit. The map shows that most of the smaller topics overlap around the center. While the bigger topics are more spread out and distinct, suggesting that they cover different aspects of the housing discussion. On the right, the bar graph displays the Top-30 Most Salient Terms across all topics. These terms, which include "http", "protest", "house", "work", "mp", "crisis", "need", "get", "canadian", "month", "canada", "one", "see", "also", "people",

"call", "thank", "support", "approval", "resign", "provide", "live", "afford", "another", "exactly", are the most relevant words across all topics. Most of these words suggest a need for housing and the the urge to "protest" and call this scenario a "crisis". We can also assume that the presence of "http" is because people on Reddit like sharing links that better convey the real-world situation of Canada's housing. As such, this interactive visualization provides a comprehensive overview of the topics and their relationship with each other, as well as the most relevant terms within these topics.

#### Produced Graphs For r/Canada Subreddit



Figure 9. Top Words In Each Topic From LDA Analysis For r/Canada

This figure, Figure 9, presents the top words in each of the 10 topics identified in our LDA analysis of the r/Canada subreddit. Each bar graph represents a different topic, with the words that are most representative of that topic displayed along the y-axis and their respective weights displayed along the x-axis. For instance, Topic 1 includes words like "hill", "ottawa", and "canada". Topic 2 includes province names and "canada". Topic 3 includes terms like "price" and "market". These results provide a snapshot of the discussions happening in the r/Canada

subreddit, highlighting the key themes and concerns of the community members.

This bar graph, Figure 10, illustrates the average proportions of the ten topics identified in our LDA analysis of the r/Canada subreddit. The x-axis represents the topics, labeled from Topic 1 to Topic 10, while the y-axis represents the average proportions, ranging from 0.000 to 0.030. The graph shows that Topic 3 has a significantly higher average proportion, indicating that it is discussed more frequently or garners more attention in the subreddit. On the other hand, the other topics have similar, much lower proportions, suggesting that they are less frequently discussed. These results

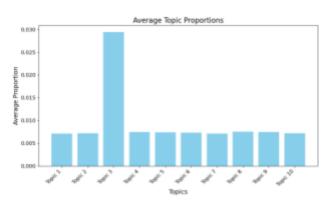


Figure 10. Average Proportions of Topics From LDA Analysis For r/Canada

offer valuable insights into the prevalence of various topics in the r/Canada subreddit, highlighting the dominant themes and less common ones, thereby providing a useful understanding of the main concerns and interests of the community members.

The two posts shown in Figure 11 are the most representative of Topic 3 in our LDA analysis of the r/Canada subreddit. These posts provide valuable insights into the discussions that dominate this topic. The first post, titled "First Canadian to orbit moon in attempt to find affordable housing" and tagged as satire, humorously suggests a Canadian is going to the moon to find affordable housing. It has received 17.9k upvotes and has 222 comments. The comments joke about finding



Figure 11. Top 2 Documents Associated With Topic 3 From LDA Analysis For r/Canada

prime property on the moon's Sea of Tranquility. The second post, titled "Grade 8 Student Calls for Ban on Housing Minister's Personal Investments In Housing Market", discusses a call for a ban on the Housing Minister's personal investments in the housing market. It has received 7.8k upvotes. A comment mentions the rising rent prices in Toronto and criticizes political apathy towards it. These posts provide a snapshot of the discussions happening in the r/Canada subreddit, particularly around Topic 3. They highlight the concerns and experiences of community members, offering a deeper understanding of the context and content of this topic that most users talk about when mentioning housing.

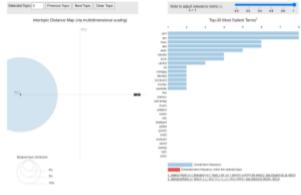


Figure 12. Interactive Visualization of Topic Model From LDA Analysis For t/Canada

The interactive visualization (Figure 12) of the topic model from the Latent Dirichlet Allocation (LDA) analysis for the subreddit r/Canada presents 10 topics. The most prevalent topic, Topic 1, is represented by the largest circle on the Intertopic Distance Map. Its size suggests a high prevalence in the discussions within the subreddit. The nine remaining smaller topics are clustered closely together, indicating their similarity or relatedness. Additionally, the bar graph titled "Top-30 Most

Salient Terms" lists the most informative terms across all topics, with 'cent', 'per', 'hous', 'state', 'bank', 'canada', 'price', 'city', and 'mortgage' being among the most salient. These terms, related to finance and economy, have the highest frequencies, as indicated by the length of the bars. This visualization provides a comprehensive understanding of the underlying topics in the Reddit posts, their relevance, and relationships, offering valuable insights into the discussions happening in the subreddit r/Canada.

# **Discussion and Conclusions**

Connecting the results of the research with the theories discussed in the introduction and literature review provides a clearer picture of how people feel about housing costs in Canada on social media.

The sentiment analysis of two important subreddits, r/CanadaHousing and r/Canada, revealed interesting trends in discussions about housing costs. The word clouds showed that terms like "housing," "affordable," "crisis," and location indicators like "Canada," "Ontario," and "Vancouver" were frequently mentioned. These terms confirm that discussions are focused on housing affordability and market conditions in specific regions of Canada, especially those with high housing costs (aligning with Smith, 1983). Furthermore, most of the sentiment expressed in the posts was negative, suggesting that many online and Reddit users are dissatisfied and worried about the housing situation in Canada, or are at least aware of the current situation. This aligns with the findings of Farhan (2023) who highlighted the widespread concerns about affordability. The scatter plots also supported this, showing that the majority of posts were classified as negative or neutral, indicating a prevailing pessimistic view among Reddit users regarding housing costs in Canada.

Supporting this, the topic modelling analysis provided deeper insights into the specific themes and discussions within these subreddits. Topics such as pricing (correlating with Revington & August, 2019's discussion of financialization), locations, types of housing, and government policies showed up as prevalent themes across both r/CanadaHousing and r/Canada. These findings align with the literature review, which highlighted various challenges related to housing affordability in Canada, including economic, social, and political factors (Farhan, 2023; Kipfer & Sotomayor, 2024).

Moving on to the research question, "What do social media users think about housing costs in Canada?", it guided the analysis of sentiments expressed on platforms like Reddit. Our hypothesis suggested that social media discussions would include mostly negative and possibly neutral opinions, but rarely any positive ones about housing costs in Canada. This idea was based on existing research indicating widespread concerns about affordability and the varied nature of social media conversations, which can sometimes be more critical.

The analysis confirmed the hypothesis, showing that negative sentiments were prevalent in discussions on both the r/CanadaHousing and r/Canada subreddits. These sentiments highlighted deep-rooted concerns and frustrations among social media users about the challenges of finding affordable housing in Canada, particularly regarding high pricing and lack of government intervention. Common themes such as pricing, government policies, and regional differences further enriched our understanding of public discourse on this issue, aligning with the arguments presented by Kipfer and Sotomayor (2024) on systemic capitalism issues worsening housing problems.

However, it is important to acknowledge that social media data may not be entirely representative of the entire Canadian population. Additionally, sentiment analysis techniques have limitations in capturing the nuances of human language. Future research could explore public opinion on housing affordability using a wider range of social media platforms and potentially complement social media analysis with traditional survey methods.

By connecting theory with real-world findings from social media, this study provides a detailed perspective on the complexities of housing affordability in Canada. The information gained from social media discussions can inform political parties and researchers working to address this important issue. Additionally, they can help the public better understand the factors influencing housing costs, leading to more informed discussions and awareness efforts.

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