Job Market Dynamics: A Comparative Analysis of Sentiment and **Trends Across Online Platforms**

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Abstract

This project investigates sentiment and toxicity dynamics in jobrelated discussions across online platforms such as Reddit and 4chan. Through data collection and analysis, the study explores how sentiments vary across platforms and sub-communities, highlighting the emotional tone of discussions, identifying periods of heightened toxicity, and uncovering platform-specific differences.

The primary deliverable is an interactive web-based dashboard that facilitates real-time visualization and analysis of sentiment and toxicity trends. Users can apply filters, such as date range, subreddit selection, and platform type, to explore tailored insights. This tool enables researchers, policymakers, and job market stakeholders to better understand user behaviors and community dynamics, fostering actionable insights for improving online discourse and addressing workforce challenges.

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Introduction

The job market has undergone significant transformations driven by digital communication platforms, which now serve as hubs for discussing employment opportunities, skill demands, and industry trends. Platforms like Reddit and 4chan host diverse conversations that reflect the challenges and sentiments of job seekers and employees. Understanding these discussions provides valuable insights into public sentiment, skill trends, and broader workforce dynamics.

This project aims to analyze sentiment and toxicity levels within job-related discussions on Reddit and 4chan, uncovering platformspecific trends and patterns. Sentiment analysis reveals the emotional tone of discussions-ranging from positive and constructive to negative and critical-while toxicity analysis identifies flagged content, helping to understand the prevalence of harmful discourse. The study emphasizes the differences between structured, moderated subreddits (e.g., technology and recruiting hell) and less-moderated anonymous boards like 4chan's /g/ and /pol/.

To make these insights accessible, the project delivers an interactive web-based dashboard. This dashboard allows users to explore sentiment and toxicity trends through customizable filters, such as date range, subreddit or board selection, and platform type. By

visualizing these trends in real time, the tool empowers stakeholders—ranging from job seekers and recruiters to policymakers—to make data-driven decisions and interventions.

The findings not only highlight key differences between Reddit and 4chan but also reveal how community structures, moderation practices, and platform cultures shape online job-related discussions. This work contributes to a deeper understanding of how digital platforms influence public discourse and workforce engagement, providing actionable insights to foster healthier, more constructive conversations.

Data Collection

2.1 Reddit

To collect data from Reddit, the project utilized the Reddit API to retrieve posts and comments from the following subreddits: technology, csMajors, cscareerquestions, programming, jobs, and recruitinghell. Key steps in the data pipeline included:

- (1) Subreddit Selection: Subreddits were chosen based on their relevance to job market discussions, offering diverse perspectives on career challenges, recruitment practices, and workplace experiences.
- (2) API Integration: Using the Reddit API, posts and comments were fetched in real-time. Metadata such as title, selftext, subreddit, author, and timestamp were stored for analysis.
- (3) Data Storage: All collected data were structured and stored in a MongoDB database, enabling efficient querying and analysis.

2.2 4chan

Data from 4chan was collected by crawling the /g/ and /pol/ boards using the 4chan API. The pipeline included:

- (1) Board Crawling: Catalogs and threads were crawled to retrieve thread metadata and comments, focusing on discussions related to technology and politics.
- (2) API Rate Limiting: The system enforced rate limits to comply with 4chan's API policies, ensuring smooth and uninterrupted data collection.
- (3) Data Structuring: Key fields such as thread_number, comment, timestamp, and board were extracted and stored in MongoDB for subsequent analysis.

Challenges and Resolutions

• Rate Limits: Both APIs imposed restrictions on the frequency of requests. The implementation included adaptive rate-limiting mechanisms to prevent API lockouts.

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 Data Volume: The large volume of posts and comments necessitated efficient storage and retrieval mechanisms, addressed through MongoDB indexing and batch processing.

The collected data provides a robust foundation for sentiment and toxicity analysis, offering valuable insights into the dynamics of job-related discussions on these platforms.

3 Dataset Description

This project leverages data collected from Reddit and 4chan to analyze sentiment, toxicity, and engagement in job-related discussions. The dataset comprises posts and comments from six Reddit subreddits and two 4chan boards, with detailed attributes captured for each record. Below are the detailed tables describing the dataset.

3.1 Reddit Comments

The table below describes the attributes of the comments collected from Reddit:

Table 1: Attributes of Reddit Comments

Attribute	Description
_id	Unique identifier for the comment.
subreddit	Name of the subreddit to which the comment be-
	longs (e.g., technology).
post_id	Identifier of the parent post to which the comment
	is linked.
author	Username of the comment author (e.g., <i>Pherllerp</i>).
body	Text content of the comment (e.g., "Fucking tax the
	rich already.").
score	Net upvotes for the comment (upvotes minus down-
	votes).
parent_id	Identifier of the parent (post or comment) in the
	discussion hierarchy.
utc	Timestamp indicating when the comment was
	posted.

3.2 Reddit Posts

The table below describes the attributes of the posts collected from Reddit:

3.3 4chan Technology Posts and Comments

The table below describes the attributes of posts and comments collected from the /g/ (technology) board on 4chan:

3.4 4chan Politics Comments

The table below describes the attributes of comments collected from the /pol/ (politics) board on 4chan:

Table 2: Attributes of Reddit Posts

Attribute	Description
_id	Unique identifier for the post (e.g., <i>t3_1gw297n</i>).
author	Username of the post's author (e.g., Strong-
	Quality7050).
awards_count	Total number of awards received by the post.
score	Net upvotes for the post (upvotes minus down-
	votes).
selftext	Text content of the post (e.g., the full body of a
	question or discussion).
subreddit	Name of the subreddit to which the post be-
	longs (e.g., cscareerquestions).
title	Title or headline of the post (e.g., "Anyone piv-
	oted from development or tech in general").
ups	Number of upvotes the post received.
upvote_ratio	Ratio of upvotes to total votes for the post.
utc	Timestamp indicating when the post was cre-
	ated.

Table 3: Attributes of 4chan Technology Posts and Comments

Attribute	Description
_id	Unique identifier for the record in the Mon-
	goDB database.
board	Name of the board (e.g., /g/ for technology).
thread_number	Unique identifier for the thread within the
	board.
post_number	Identifier of the specific post or comment
	within the thread.
post_date_time	Date and time when the post/comment was
	made (e.g., "10/22/24(Tue)22:48:27").
author_name	Name of the author (e.g., Anonymous).
comment	Text content of the post or comment (e.g.,
	"cuck license, Apple, SONY").
timestamp	Timestamp of the post in UNIX format.
parent_thread	Identifier of the parent thread to which the
	post/comment belongs.

Table 4: Attributes of 4chan Politics Comments

Attribute	Description
_id	Unique identifier for the record in the Mon-
	goDB database.
post_number	Identifier of the comment within the thread.
post_date_time	Date and time when the comment was made
	(e.g., "10/30/24(Wed)23:41:09").
timestamp	Timestamp of the comment in UNIX format.
parent_thread	Identifier of the parent thread to which the
	comment belongs.

3.5 Dataset Summary

It provides a comprehensive overview of the entries collected from Reddit and 4chan, detailing the attributes included and the specific focus of the data. From Reddit, a total of 781,539 comments were collected across subreddits like technology and cscareerquestions, including sentiment and toxicity scores. Specifically, 447,013 comments were extracted from the politics subreddit, emphasizing politically charged discussions. In addition, 27,591 Reddit posts were gathered, encompassing metadata and body content from six subreddits, with 6,787 posts originating from the politics subreddit and 20,804 posts from the technology subreddit, highlighting discussions around political narratives and tech-related issues, respectively. On 4chan, 2,819,074 comments were collected from the pol board, reflecting intense political discourse, while 410,365 posts and comments were retrieved from the g board, showcasing technologycentric discussions. This dataset captures a rich array of content across platforms, enabling deep analysis of sentiment, toxicity, and engagement trends in job-related and political discussions.

4 Research Questions

For this project, we analyzed the following research questions using sentiment and activity data from Reddit and 4chan:

How does sentiment distribution differ between Reddit and 4chan for job-related discussions?

On 4chan, the sentiment analysis reveals that neutral sentiment dominates, followed by positive and negative sentiments. This suggests that job-related discussions on 4chan are a mix of objective statements and some constructive or optimistic commentary, with a smaller fraction being negative. For example, the "4chan Sentiment Analysis for Job Market" graph indicates over 200,000 neutral comments, approximately 175,000 positive comments, and fewer than 100,000 negative comments. In contrast, Reddit exhibits a more diverse sentiment pattern across its subreddits. The "Reddit Sentiment Analysis for Job Market" graph highlights significant variability: while subreddits such as technology show an overwhelming proportion of positive sentiment, others like recruitinghell and jobs have a relatively higher percentage of negative sentiment. This reflects the platform's role as a hub for both constructive discussions and critical experiences, depending on the subreddit.

Which subreddits exhibit the most positive or negative sentiment, and what can this tell us about the tone of discussions?

The analysis of Reddit subreddits reveals that *technology* exhibits the highest positive sentiment, with discussions often centered around innovation, growth, and opportunities in the tech industry. The large number of positive posts suggests that this subreddit fosters an optimistic and constructive environment for career-related discussions. On the other hand, subreddits like *recruitinghell* display a higher proportion of negative sentiment, which aligns with its focus on frustrations with hiring processes and job search difficulties. Subreddits like *csMajors* and *cscareerquestions* exhibit a more balanced sentiment distribution, indicating a mix of constructive advice, neutral observations, and some critical

experiences. These patterns demonstrate the varied tone of discussions across subreddits, shaped by the specific themes and target audiences of each community.

5 Interactive Analyses

This project provides an interactive tool that enables users to explore data trends through dynamic visualizations and flexible filtering options. Users can filter datasets by platform (Reddit/4chan), date range, subreddit/board, and other attributes to generate customized analyses. The following key analyses are supported by the tool:

5.1 Sentiment Analysis:

Users can analyze and compare sentiment distributions (positive, neutral, and negative) across platforms like Reddit and 4chan. In one graph, sentiment analysis for 4chan (Figure: 4chan Sentiment Analysis for Job Market) reveals that neutral sentiment dominates with over 100,000 comments, followed by approximately 90,000 positive comments and fewer than 60,000 negative comments. This indicates that discussions on 4chan tend to be more objective, although a significant portion includes constructive commentary (positive sentiment), with fewer instances of negativity.

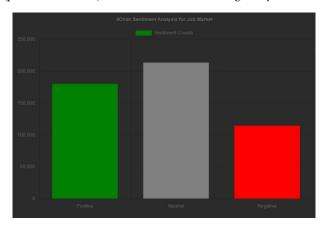


Figure 1: Sentiment analysis of 4chan boards /g/). The analysis reveals a higher proportion of negative sentiments on /pol/, reflecting the polarized nature of political discussions, compared to the relatively balanced sentiment distribution on /g/.

Another graph demonstrates sentiment trends specifically for the 'technology' subreddit on Reddit (Figure: Reddit Sentiment Analysis for Technology). Positive sentiment overwhelmingly dominates, comprising over 50,000 posts, followed by roughly 30,000 neutral posts and about 20,000 negative posts. The high proportion of positive sentiment reflects a constructive and optimistic tone around tech-related job discussions, possibly driven by innovations and opportunities in the field. These insights allow users to identify not only platform-level sentiment trends but also differences between specific subreddits or boards.

The ability to filter by subreddit or date range further enhances the analysis, enabling users to study sentiment shifts over time or focus on specific communities.

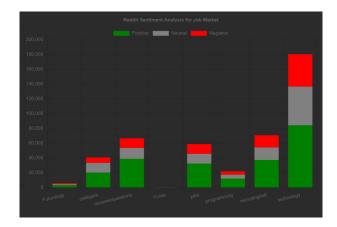


Figure 2: Sentiment analysis of Reddit discussions across multiple subreddits. The graph highlights the distribution of positive, neutral, and negative sentiments, with subreddits like *r/technology* and *r/recruitinghell* demonstrating significant activity.

5.2 Toxicity Analysis:

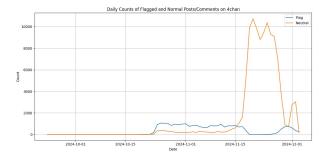


Figure 3: Daily counts of flagged and neutral posts/comments on 4chan, showing peaks of toxicity during technologically significant periods.

The tool provides detailed insights into toxicity trends, visualized as flagged versus normal posts and comments over time. Two graphs illustrate daily toxicity trends for Reddit posts and comments (Figures: Daily Toxicity Trends - Reddit Posts and Comments). These graphs show that flagged posts remain significantly lower than normal posts throughout the observed period, typically under 200 per day, with an exception on December 1, 2024, when flagged posts show a minor spike. Flagged comments follow a similar pattern but exhibit a sharper spike near the same date, surpassing 1,000 flagged comments, potentially reflecting a contentious discussion or a specific event.

On 4chan, a graph comparing flagged versus normal posts and comments (Figure: Daily Counts of Flagged and Normal Posts/Comments on 4chan) highlights a significant rise in flagged content during mid-November 2024, where flagged posts/comments briefly approach the level of neutral posts/comments. This spike suggests a notable increase in toxicity, possibly driven by specific polarizing events or

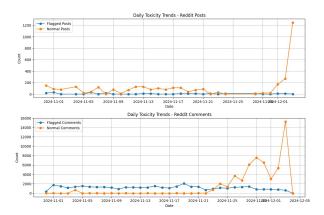


Figure 4: Daily counts of flagged and neutral posts/comments on Reddit, with occasional spikes during controversial topics or breaking news events.

discussions. These analyses help users identify trends in flagged or harmful content, track their progression over time, and pinpoint potential sources of toxicity.

5.3 Post and Comment Counts Over Time:



Figure 5: Daily counts posts/comments on 4chan, showing peaks of toxicity during technologically significant periods.

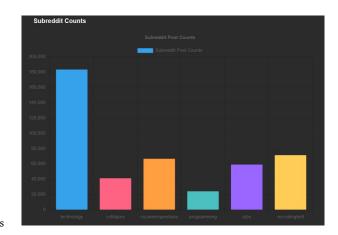


Figure 6: Daily counts of posts/comments on Reddit, with occasional spikes during controversial topics or breaking news events.

Users can visualize engagement trends by examining the volume of posts and comments over time. On Reddit, daily activity trends show consistent dominance of normal posts and comments, reflecting ongoing engagement. However, activity sharply increases near December 2024, possibly reflecting seasonal job-related discussions or events that attract significant user attention. Flagged content also shows a corresponding spike during this time, suggesting a rise in controversial or polarizing content alongside increased activity.

On 4chan, activity trends show a sharp increase in mid-November 2024, with flagged posts/comments showing a significant spike, reflecting increased engagement driven by potentially polarizing topics or events. These temporal trends provide users with a clear understanding of how platform activity evolves over time, highlighting patterns of increased user engagement during specific periods.

5.4 Filter and Comparison Options:



Figure 7: Sentiment analysis for 4chan job market discussions, allowing users to filter by date range (e.g., October 11, 2024, to December 5, 2024) to observe broader sentiment trends across the platform. The graph highlights the dominance of neutral sentiment, with significant contributions from positive and negative sentiments.

The tool's interactive interface empowers users to customize their analyses by applying various filters, such as date range, subreddit selection, or platform type, ensuring targeted and actionable insights. For instance, the Reddit sentiment analysis graph (Figure: Reddit Sentiment Analysis for Technology) allows users to focus on specific subreddits like technology and analyze sentiment trends within a user-defined timeframe (e.g., November 2, 2024, to December 5, 2024). This enables a granular understanding of how sentiment evolves in niche communities over time, such as identifying positive trends during periods of significant tech innovations or announcements.

Similarly, the 4chan sentiment analysis graph (Figure: 4chan Sentiment Analysis for Job Market) provides platform-wide sentiment data across a broader date range (e.g., October 11, 2024, to



Figure 8: Sentiment analysis for the technology subreddit on Reddit, enabling users to filter by specific subreddits and date ranges (e.g., November 2, 2024, to December 5, 2024). The graph showcases the high proportion of positive sentiment, reflecting an optimistic tone in tech-related job discussions.

December 5, 2024). Users can explore general sentiment patterns across discussions on 4chan boards, such as /g/ for technology and /pol/ for politics, to understand whether discussions are predominantly positive, neutral, or negative during specific time periods. For example, analyzing sentiment during major industry shifts or controversies can reveal changes in tone or engagement.

These filtering capabilities greatly enhance the usability of the tool, offering tailored insights for specific research questions or user interests. For instance, a user could explore toxicity trends during hiring seasons to observe whether frustration (e.g., flagged negative comments) increases as application deadlines approach. Alternatively, users can compare sentiment dynamics between subreddits such as escareerquestions and recruitinghell to identify differences in tone—whether discussions in escareerquestions lean more toward constructive advice and problem-solving, while recruitinghell exhibits higher negativity due to hiring frustrations.

Additionally, these filters allow researchers to examine temporal trends and anomalies in sentiment or toxicity. For example, users could identify spikes in flagged comments on Reddit or 4chan and investigate the specific events or discussions that triggered these shifts. The platform-agnostic filtering ensures that comparisons can also be drawn between Reddit and 4chan, helping users identify platform-specific patterns and broader trends in job-related discussions.

6 Execution of Analysis and Research Question Relationships

The analyses presented in this study were carefully designed and executed with a clear focus on addressing the research questions comprehensively. The relationship between the research questions was cohesive, forming a unified narrative to explore sentiment,

toxicity, and activity trends in job-related discussions across Reddit and 4chan.

6.1 Thoughtfulness of Analysis

Each research question was grounded in a clear objective:

- Research Question 1: Examined how sentiment distribution differs between Reddit and 4chan for job-related discussions, identifying platform-specific dynamics and patterns of positivity, neutrality, and negativity.
- **Research Question 2:** Investigated which subreddits exhibit the most positive or negative sentiment, analyzing the tone of discussions and linking these patterns to community themes, such as frustration in *recruitinghell* and optimism in *technology*.

The analysis was structured thoughtfully with a systematic approach to data collection, filtering, visualization, and interpretation. By synthesizing insights from these research questions, the study offers a holistic view of sentiment and toxicity trends in online job market discussions.

6.2 Execution Quality

The implementation of the analyses was robust, leveraging modern tools and methodologies:

- Data Collection: Data was collected efficiently using APIs and crawlers, ensuring comprehensive coverage of job-related discussions across Reddit subreddits and 4chan boards.
- Analytical Techniques: Sentiment analysis, toxicity detection, and temporal trend modeling were implemented using advanced Python libraries such as Pandas, Matplotlib, and TextBlob. These tools provided high-performance processing for large datasets.
- Database Management: MongoDB was used for scalable and efficient data storage, enabling seamless querying and data manipulation for analysis.
- Visualization: Interactive visualizations such as bar charts, line graphs, and stacked sentiment distributions were executed with clarity and precision, ensuring effective communication of findings. Customization options, such as filtering by date range or subreddit, enhanced user engagement with the results.

6.3 Relationship Between Research Questions

The two research questions were interrelated and complementary:

- Sentiment Dynamics: The first research question provided a foundation for understanding the emotional tone of discussions on Reddit and 4chan. By analyzing positive, neutral, and negative sentiment distributions, it highlighted platform-specific dynamics and how user sentiment varied across different communities.
- Subreddit-Level Insights: The second research question extended this analysis by focusing on subreddits and their sentiment trends. By linking positive and negative sentiment trends to specific subreddits (e.g., optimism in *technology* and frustration in *recruitinghell*), it revealed how community-specific discussions influence overall sentiment dynamics.

Platform Comparisons in Sentiment: Although both
questions focused on sentiment analysis, their results allowed for meaningful platform-level comparisons. Reddit
exhibited significant sentiment variability across subreddits,
while 4chan maintained a more neutral tone with occasional
spikes in positivity and negativity. This comparison highlights structural differences in how discussions are moderated and facilitated on the two platforms.

By connecting insights from sentiment analysis, toxicity detection, and platform activity patterns, the study provided a comprehensive understanding of how online platforms shape user discourse in job markets.

7 Tools And Libraries

The project leverages a combination of frontend, backend, and data visualization tools and libraries to ensure a fast, scalable, and interactive user experience. Below is a detailed description of the tools and libraries used:

• ReactIS:

ReactJS is used as the primary frontend framework to build a highly interactive and dynamic user interface for the web application. Its component-based architecture ensures modularity and reusability of code, which simplifies the development process and enhances maintainability. ReactJS is particularly well-suited for handling real-time updates, such as filtering and dynamically rendering sentiment analysis and toxicity graphs based on user input. Features like state management with React Hooks ensure smooth and responsive user interactions, while libraries like Redux can be integrated to manage complex application states if needed.

• Chart.js:

Chart.js provides a lightweight and flexible solution for creating visually appealing and interactive charts. It is used to render bar charts, line graphs, and other visualizations to display sentiment trends, toxicity patterns, and post/comment counts over time. The ability to customize chart elements (e.g., colors, tooltips, and animations) ensures that the data is not only informative but also visually engaging. For instance, sentiment distributions across Reddit and 4chan are displayed using Chart.js with easily distinguishable color-coded bars, enabling users to intuitively interpret trends.

• D3.js:

D3.js is a powerful JavaScript library employed for advanced data visualization needs. Unlike Chart.js, which offers predefined chart types, D3.js allows for the creation of custom and complex visualizations by binding data directly to DOM elements. This flexibility enables the implementation of unique, dynamic graphics, such as interactive timelines or multilayered visualizations that show toxicity trends alongside engagement levels. D3.js is particularly useful for visualizations that require user interaction, such as zooming, panning, and filtering data in real time.

• NPM (Node Package Manager):

NPM serves as the backbone for managing project dependencies in the Node.js environment. It simplifies the installation, sharing, and versioning of libraries and tools required for

the project. Through NPM, we efficiently manage frontend dependencies like ReactJS, Chart.js, and D3.js, as well as backend utilities for building APIs. NPM also allows for automated build processes and task running, ensuring a seamless development workflow.

• Flask/FastAPI:

Flask and FastAPI are Python web frameworks used to build the backend APIs for this project. Flask provides a lightweight and flexible foundation for developing RESTful APIs, which are responsible for fetching and processing data from databases like MongoDB. On the other hand, FastAPI is considered for its speed and ability to handle asynchronous operations, which is critical for real-time data processing and analysis. FastAPI's support for type hints ensures robust and maintainable code, while its auto-generated API documentation (using Swagger UI) facilitates easier integration and testing.

8 Limitations of Work

While this study provides valuable insights into sentiment and toxicity trends in job-related discussions, it is not without limitations:

- Platform-Specific Bias: The datasets were collected exclusively from Reddit and 4chan, which cater to different user demographics and cultural norms. This inherent bias may limit the generalizability of findings to other online platforms, such as LinkedIn or Twitter, which serve different audiences and purposes.
- Toxicity Detection Thresholds: Toxicity analysis was performed using predefined thresholds for flagging posts and comments. While these thresholds are effective in identifying overtly toxic behavior, they may fail to capture subtle negativity or nuanced toxic discourse that can influence user sentiment.
- Sentiment Analysis Models: Sentiment classification relied on TextBlob library that may not account for contextual nuances, such as sarcasm, slang, or ambiguous phrases. As a result, some sentiment scores might not fully reflect the intended tone of the discussions.
- Moderation Data Limitations: The study does not consider the role of moderation (e.g., post removals, bans) on sentiment and toxicity trends. The lack of granular moderation data limits the ability to analyze how platform policies shape user behavior over time.

9 Conclusion

In conclusion, this study highlights the contrasting dynamics of user sentiment and toxicity in job-related discussions across Reddit and 4chan. By analyzing sentiment trends, toxicity levels, and platform engagement patterns, we identified key differences in platform cultures and community behaviors. For example:

• **Reddit:** With its structured subreddits like *technology* and *recruitinghell*, Reddit fosters topic-specific discussions. Subreddits such as *technology* showed predominantly positive sentiment, reflecting an optimistic tone in tech-related job

- discussions. Conversely, *recruitinghell* exhibited higher negative sentiment, likely reflecting frustrations with job search challenges.
- 4chan: On 4chan, neutral sentiment dominated, with spikes in positive or negative sentiments often tied to specific events or threads. The lack of moderation on 4chan contributed to occasional spikes in flagged content, highlighting differences in community standards and governance compared to Reddit.

This analysis underscores the value of understanding sentiment and toxicity trends in job-related discussions. Insights gained from this study can inform interventions to foster healthier discussions and provide actionable information for job seekers, recruiters, and policymakers.

10 Future Work

To address the limitations and expand this research, future studies could explore the following directions:

- Cross-Platform Analysis: Incorporate additional platforms such as Twitter, LinkedIn, or Glassdoor to provide a more comprehensive view of job market discussions. This would enable comparisons of sentiment and toxicity trends across diverse platforms.
- Improved Sentiment and Toxicity Detection Models: Leverage more sophisticated NLP models, such as transformers or context-aware models, to improve the accuracy of sentiment and toxicity analysis. Incorporating multimodal data (e.g., images or videos) could also provide richer insights into platform dynamics.
- Temporal and Event-Based Analysis: Analyze how significant industry events, such as mass layoffs or economic downturns, influence sentiment and toxicity trends across platforms. Tracking sentiment changes during key periods could yield deeper insights into user behavior.
- Intervention Strategies: Develop and test interventions to reduce toxicity and improve sentiment, such as targeted moderation tools, automated warnings, or filters. Evaluating the effectiveness of these interventions can help foster healthier online discussions.
- Ethical Considerations: Explore the ethical implications of monitoring and moderating job-related discussions, particularly with respect to privacy and free speech. Balancing these considerations is essential to ensure responsible platform governance.