

# Influencing the Divide: Political Polarization in Indian Influencer Discourse on X

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## Abstract

This paper investigates partisan discourse on X (formerly Twitter), examining how political identities and affiliations shape online communication patterns. We analyze a large-scale dataset of tweets retweeted by Indian politicians from 2020–2023 to understand political polarization in social media. Our methodology combines influencer polarity scoring based on retweet behavior, automated keyword extraction using KeyBERT, and stance classification using a LoRA-adapted large language model. We identify politically polar keywords and classify tweet stances toward these topics to reveal patterns in how ruling and opposition parties engage with different political narratives.

## 1 Introduction

The rise of social media platforms has fundamentally transformed political communication and discourse. X (formerly known as Twitter) has emerged as a critical platform for political discussion, serving as a space where politicians, journalists, activists, and citizens engage in real-time conversations about political issues. However, this democratization of political discourse has coincided with growing concerns about political polarization and the formation of ideological echo chambers as pointed out by several recent research studies [? ?].

This polarization has several detrimental effects on the information ecosystem, and the society at large. The lack of spread and cross-pollination of ideas across communities lead to unbalanced and incorrect judgment of social and political issues, thereby biasing electoral outcomes. The problem is further compounded by virality of mal-information and toxic content, resulting in an undesirable impact on democracy [? ].

More often than not, the boundaries of these echo chambers are fortified when the information is generated by a traditional influential figure (a prominent politician, business person, celebrity, etc.) with a significant network reach and follower count.

Moreover, with the increasing accessibility of digital technologies, a second tier of micro-influencers (hereafter referred to as *influencers*) has emerged as a significant contributor to polarization. Many of these individuals primarily derive their livelihoods from social media platforms and, in some cases, attain levels of popularity comparable to or exceeding those of traditional public figures. Content generated or disseminated by these influencers reaches a substantial audience, and consequently, ideological or opinion-based polarization among them further amplifies and compounds broader societal polarization. The political and social impact of these digital influencers can be estimated by the fact that influencer generated content accounted for around 36 % of all user actions across major social

platforms (Facebook, Instagram, X, TikTok) in April 2025, reflecting their mass global engagement [? ]. Political content alone drove over 30 % of influencer interactions in India. Additionally, the influencer base seems to be ever-growing on social media, with India alone seeing a significant rise in number of influencers starting 2020 [? ].

This paper investigates one of the axes of polarization among such influencers, namely the political axis. In other words, we study the partisan influencer discourse on X, examining if and how political leaning of influencers determine their online communication patterns on various social and political issues. The primary research question we intend to address in this work is: *How does the political discourse of influencers on X vary on different social and political issues based on their political leaning?*

We currently focus on the Indian political context, although our methods are generalizable to any geography. We first develop a unique proxy for political leaning of influencers based on how politicians from the centrally ruling and opposition parties engage with their content. Next, we develop an *Aspect based Stance Classifier* based on a small language model (*Mistral-7B*), which analyzes the stance of the influencer tweets corresponding to the primary aspects/subjects contained in them. We also carry out our analysis separately for the tweets written in English and Hindi, to compare our findings across the linguistic spectrum.

Our findings empirically reveal that Indian influencers exhibit bipolar polarization with respect to a wide range of social and political issues, as identified by the aspects present in their tweets. Furthermore, an influencer's political leaning is strongly correlated with the stance they adopt when tweeting on a given aspect. These observations raise several important questions and directions for future work, including how such polarization evolves over time, the mechanisms through which influencers shape and reinforce audience beliefs, and the extent to which polarized influencer discourse affects information diffusion and opinion formation among social media users. Future research could also investigate causal relationships between influencer stances and shifts in public opinion, as well as explore intervention strategies aimed at mitigating the amplification of polarization in social media ecosystems.

## 2 Literature Review

## 3 Data Collection

We utilize a dataset of tweets provided by Professor Joyojeet Pal, comprising retweets made by Indian politicians on X (Twitter) during the period 2020–2023. The dataset contains over 7.1 million retweet records, capturing the amplification behavior of politicians across the Indian political spectrum.

Each record represents a retweet action containing the original tweet content, timestamp, retweeting politician's X handle, and the original author (influencer) whose content was retweeted.

To associate politicians with their party affiliations, we utilize an external mapping file containing X handles and corresponding party memberships. This mapping covers politicians from over 50 political parties, which we aggregate into two major blocs as shown in Table 1.

Table 1: Political Party Bloc Mapping

Ruling Bloc	Opposition Bloc
BJP, JD, LJP, HAM, JSP, NPP, AIADMK, AJSU, AGP, RPI, NPF, IPFT, NDPP, RSS, NDA, MNF, VHP, YSRCP, ABVP, BJD, BSCP	INC, AITC/TMC, DMK, SP, CPIM, RJD, AAP, JMM, IUML, CPI, NCP, TRS, Shiv Sena, TDP, JDS

The data processing pipeline consists of two stages. In the first stage (party labeling), we process the raw CSV in chunks of 100,000 rows and match each retweeting politician's handle to their party affiliation using lowercase normalization, producing a labeled dataset with the `retweet_party` column. In the second stage (polarity calculation), we compute yearly polarity scores for each influencer based on who retweets their content, then average across years to obtain a stable polarity measure, identifying 960 unique influencers with calculable scores. Table 2 presents the key statistics of our dataset.

Table 2: Dataset Statistics

Metric	Value
Total retweets	7,115,963
English tweets	2,939,716 (41.3%)
Hindi/Regional tweets	4,176,247 (58.7%)
Unique influencers (with polarity)	960
Influencer-year observations	3,712
Temporal range	2020–2023

The temporal distribution (Table 3) shows consistent activity across all four years, with relatively balanced influencer-year records ranging from 908 to 944 per year.

Table 3: Temporal Distribution of Tweets

Year	Influencer-Year Records
2020	908
2021	944
2022	949
2023	911

Table 4 describes the key columns in our final processed dataset. The original dataset contains tweets in multiple languages, including Hindi and regional Indian languages. For the English analysis pipeline, we filter tweets using an ASCII-ratio

heuristic: a tweet is classified as English if at least 85% of its alphabetic characters are ASCII letters, providing computationally efficient language detection for large-scale processing.

Table 4: Dataset Column Descriptions

Column	Description
timestamp	Date and time of the retweet (UTC)
tweet	Full text content of original tweet
retweet_author	X handle of retweeting politician
original_author	X handle of influencer
retweet_party	Political party of retweeter
year	Year extracted from timestamp
side	Political bloc (ruling/opposition/other)
polarity_avg	Influencer's average polarity score
tweet_label	Inferred political leaning of tweet

## 4 Methodology

### 4.1 Influencer Polarity Calculation

A key insight of our approach is that politicians' retweet behavior reveals their political alignments. When a politician retweets content from an external account (influencer), it signals endorsement or amplification of that content. By aggregating retweet patterns across many politicians with known party affiliations, we can infer the political leaning of influencers. This methodology leverages the revealed preferences of politicians, where a retweet represents an explicit endorsement action, providing a more reliable signal than passive following or hashtag co-occurrence. Alternative approaches such as hashtag-based inference, content-based sentiment analysis, or network-based follower analysis each present limitations: hashtags can be appropriated or used sarcastically, sentiment analysis struggles with political nuance and sarcasm, and network analysis requires extensive social graph data that was unavailable for this study.

For each influencer  $i$  and year  $y$ , we calculate a yearly polarity score using the formula in Equation 1, where  $R_{i,y}$  represents the count of retweets the influencer received from Ruling bloc politicians in year  $y$ , and  $O_{i,y}$  represents the count from Opposition bloc politicians.

$$P_{i,y} = \frac{R_{i,y} - O_{i,y}}{R_{i,y} + O_{i,y}} \quad (1)$$

The polarity score ranges from  $-1$  (exclusively retweeted by Opposition) to  $+1$  (exclusively retweeted by Ruling). The computation involves grouping data by influencer, year, and political side, then pivoting to create ruling and opposition columns with missing values filled as zero. We then compute an average polarity score across all available years using Equation 2, where  $Y_i$  is the set of years in which influencer  $i$  was retweeted.

$$P_{avg,i} = \frac{1}{|Y_i|} \sum_{y \in Y_i} P_{i,y} \quad (2)$$

Based on the average polarity score, influencers are classified into three categories using a threshold of 0.5. Influencers with  $P_{avg} \geq 0.5$  are classified as Pro-Ruling, those with  $P_{avg} \leq -0.5$  as Pro-Opposition, and those within  $-0.5 < P_{avg} < 0.5$  as Neutral. This classification is propagated to all tweets authored by each influencer, effectively labeling tweets based on their author’s political leaning.

## 4.2 Keyword Extraction and Selection

To identify topics discussed in partisan discourse, we employ KeyBERT for automated keyword extraction from tweet text. KeyBERT leverages BERT embeddings to identify keywords and phrases that are semantically similar to the document as a whole, making it suitable for capturing the topical essence of short-form social media content. Before extraction, tweets undergo preprocessing: URL removal, mention handle conversion (stripping @ while retaining usernames), hashtag segmentation using the wordsegment library (e.g., #AatmaNirbhariBharat becomes “aatma nirbhari bharat”), and whitespace normalization.

The extraction process uses the paraphrase-multilingual-MiniLM-L12-v2 sentence transformer model as the KeyBERT backend, chosen for its multilingual capabilities. We configure n-gram range of 1–2, extract top 3 keywords per tweet, and apply Maximal Marginal Relevance (MMR) with diversity 0.7 to balance semantic similarity with keyword diversity.

After extracting keywords from all tweets, we analyzed the complete keyword distribution to identify polar keywords—topics disproportionately discussed by one political side. By examining the proportion of tweets from Pro-Ruling versus Pro-Opposition sources for each keyword, we manually selected 15 keywords representing major political topics for annotation, chosen based on their political significance and representation across both ruling and opposition discourse. To expand coverage, we systematically analyzed keyword frequencies and identified 23 additional polar keywords exhibiting clear partisan skew. Table 5 presents the complete set of 38 keywords used for stance analysis.

Table 5: Complete Keyword Set for Stance Analysis

15 Keywords for Manual Annotation			
caa	congress	farm_laws	farmers_protests
hindu	hindutva	kashmir	kashmiri_pandits
modi	muslim	new_parliament	rahulgandhi
ram_mandir	shaheen_bagh	china	
23 Extended Keywords from Frequency Analysis			
aatmanirbhari	ayodhya	balochistan	bhakts
democracy	demonetisation	dictatorship	gdp
hathras	inflation	islamists	lynching
mahotsav	minorities	msp	ratetvdebate
sangh	sharia	spyware	suicides
ucc	unemployment		

Keywords like *aatmanirbhari* (self-reliance campaign), *ucc* (Uniform Civil Code), *ayodhya*, and *mahotsav* are predomi-

nantly used by Pro-Ruling sources ( $\sim 74\%$ ), while *unemployment*, *demonetisation*, *bhakts*, and *spyware* are predominantly discussed by Pro-Opposition sources ( $\sim 80\%$ ).

## 4.3 Stance Classification

The goal of our stance classification system is to determine how influencers position themselves toward specific political topics. Given a tweet  $t$  and a target keyword  $e$  (such as *modi*, *caa*, or *farmers\_protests*), the system predicts one of three stance labels: Favor (expressing support), Against (expressing opposition), or Neutral (no clear stance). This three-way classification avoids the ambiguity of an “unrelated” category, which in practice often overlaps with neutral stances. The model outputs a structured JSON response containing both the stance label and a brief reasoning, enabling interpretable predictions that can be verified and analyzed.

### Manual Annotation

To create training data for stance classification, we manually annotated tweets for the 15 initial keywords through a rigorous process. For each keyword, we sampled 100–150 tweets while carefully balancing the selection between Pro-Ruling and Pro-Opposition sources to ensure representative coverage from both political perspectives. After deduplication to remove near-duplicate tweets, each sample was labeled with its stance (favor, against, or neutral) along with a brief reasoning capturing the linguistic cues that informed the classification decision. The annotations were consolidated into per-keyword JSON files, with each entry containing the tweet text, target keyword, stance label, and reasoning. This process yielded a final annotated dataset of 1,866 labeled tweet-keyword pairs across the 15 keywords.

### LoRA Fine-tuning

We employ Mistral-7B-Instruct as our base language model and apply Low-Rank Adaptation (LoRA) for parameter-efficient fine-tuning. LoRA freezes the pre-trained weights and injects trainable low-rank decomposition matrices, enabling adaptation without modifying the original model parameters. The weight update follows Equation 3, where  $W$  is the frozen weight matrix and  $B \in \mathbb{R}^{d \times r}$ ,  $A \in \mathbb{R}^{r \times k}$  are trainable matrices with rank  $r \ll \min(d, k)$ .

$$W' = W + BA \quad (3)$$

From our annotated dataset, we reserved 10 examples per keyword (structured as 3 favor, 3 against, 3 neutral, and 1 filler) as few-shot examples for the inference prompt. The remaining annotations were split 85:15 into training and test sets, yielding 264 held-out samples for evaluation. The training data was formatted with a structured prompt containing instruction, input (target keyword and tweet text), and response sections, with the model trained to output JSON containing stance and reasoning.

We configured LoRA with rank  $r = 16$ , scaling factor  $\alpha = 32$ , and dropout 0.05, targeting the query, key, value,

and output projection layers as well as the MLP gate, up, and down projection layers. Training used TRL’s SFTTrainer with response-only loss masking (the model is only trained on the JSON response, not the prompt). We trained for 3 epochs with learning rate  $2 \times 10^{-4}$ , batch size 2, gradient accumulation steps 8, and bfloat16 precision. The trained LoRA adapter was saved separately from the base model, enabling efficient deployment.

### Evaluation Results

We evaluated the fine-tuned model on the 264-sample held-out test set. Table 6 presents the overall performance metrics.

Table 6: Stance Classification Evaluation Results

Metric	Value
Total test samples	264
Accuracy	78.0%
Precision (macro)	78.0%
Recall (macro)	75.3%
F1-Score (macro)	76.2%
F1-Score (weighted)	77.7%

Table 7 shows per-class performance. The model performs strongest on the “favor” class ( $F1=0.82$ ), followed by “against” ( $F1=0.79$ ). The “neutral” class shows lower recall (0.60), reflecting the inherent difficulty of distinguishing neutral stances from weakly expressed opinions.

Table 7: Per-Class Classification Performance

Class	Precision	Recall	F1	Support
Against	0.78	0.80	0.79	95
Favor	0.78	0.86	0.82	111
Neutral	0.78	0.60	0.68	58

Table 8 presents per-keyword accuracy, showing that some topics yield clearer stance signals than others. Keywords like *modi* achieve the highest accuracy (94.4%), followed by *caa* (89.5%) and *congress* (88.9%).

Table 8: Per-Keyword Classification Accuracy (Top 10)

Keyword	Accuracy	F1 (macro)
modi	94.4%	0.91
caa	89.5%	0.90
congress	88.9%	0.84
hindutva	85.7%	0.56
new_parliament	85.7%	0.82
rahulgandhi	81.3%	0.81
farmers_protests	80.0%	0.82
shaheen_bagh	78.9%	0.71
muslim	78.9%	0.79
china	73.7%	0.64

### Final Inference Pipeline

For large-scale stance classification across all 38 keywords, we deploy an inference pipeline that combines the trained LoRA adapter with few-shot prompting. The pipeline loads the base Mistral-7B-Instruct model and applies the trained LoRA adapter using PEFT’s `PeftModel`, effectively deploying our fine-tuned stance classifier without modifying the base model weights.

The inference prompt is constructed using the same 10 few-shot examples per keyword that were reserved during annotation. For each input tweet, the pipeline retrieves keyword-specific examples following the naming pattern `{prefix}_{keyword}_stance.json`. For the 23 extended keywords that lack dedicated annotations, the system falls back to a global set of representative examples, enabling stance classification across all 38 keywords with consistent prompt structure.

Inference uses deterministic settings (temperature 0, no sampling) to ensure reproducible outputs. The model returns JSON containing stance and reasoning, which is parsed by a robust extraction function that handles various output formats and applies label normalization. Batched processing with length-based bucketing enables efficient large-scale inference, while resume functionality and periodic checkpointing ensure reliability for processing the full dataset.

### 4.4 Hindi Tweet Analysis

We also analyzed the tweets written in Hindi (Devanagari and Roman fonts) to perform a comparative analysis of the trends around stance classification in Hindi with that observed for English tweets.

For this purpose, we first selected 500 unique Hindi tweets, by dropping retweets and duplicates. We also stratified the data by script  $\times$  URL  $\times$  hashtag, to prevent over-/under-representation exhibited in Naive Random Sampling. While there are NLP tools for aspect extraction and stance analysis for non-English/Hindi documents, in this work we use a translation pipeline to convert the Hindi tweets to their English equivalent, and then performing stance classification on this data. We performed a detailed sanity check of the translated data, and the final results of stance classification, to ensure robustness of our findings [to be reported]. A major advantage of this approach is the applicability of SOTA NLP approaches and their consistency in performance across both datasets (English and Hindi). Since we apply the same methods of aspect extraction and stance analysis, their performance on both datasets are easily comparable, ensuring generalizability of our findings.

We used the `facebook/nllb-200-distilled-600M` model [ref] to translate the Hindi tweets to English [because...]. The model also has the additional advantage of efficient handling of both pure Devanagari and Roman Hindi scripts, both of which are abundant in our data. We used a batch size of 16 and set the `max-new-tokens` parameters = 128, experimentally. This resulted in translation of all 500 Hindi tweets to English.

Next, our goal was to perform quality check of the translated data. Standard qualitative analysis approaches to check translation quality often suffer from sampling issues, and the requirement of significant manual effort. To avoid this, we developed a quantitative method to assess the quality of translations, on top of a qualitative layer [to be provided].

**Quantitative Quality Assessment:** For the quantitative analysis, we first represent the two datasets in the same embedding space, and then observe the drift between each Hindi and its equivalent translated English data point, to assess their semantic coherence. If the average drift is lower than a certain threshold, we determine the translation quality to be above par, and vice versa.

We first embed the original and the translated texts using the same `sentence-transformers/all-MiniLM-L6-v2` model. [Write some details about this model and its multilingual ability]. This ensures that both the Hindi/Roman Hindi and English texts are embedded into a shared embedding space. We then measure the cosine similarity of the embeddings to see how semantically similar the original and translated data points are. We finally experimentally determine a set of similarity threshold scores. Specifically, if the two data points exhibit:

- A similarity score of above 0.9, they are considered to be semantically coherent
- A similarity score of below 0.85, they are considered to be semantically incoherent
- A similarity score  $\epsilon[0.85, 0.9]$ , the data points are considered to require further manual inspection

Our analysis revealed a median cosine similarity of 0.95, indicative of a significant number of semantically coherent translations. 15.8% of the data points exhibited a score of below 0.9, 1.8% between 0.8 and 0.85 (inspect), and 0.4% below 0.8 (incoherent). This indicates that the quality of most of our translations are significantly high.

We also use *Uniform Manifold Approximation and Projection* (UMAP) [ref] to project the original and translated embeddings into a 2D space (figure 1), to observe the drifts between pair of data points. UMAP is a non-linear dimensionality reduction technique to visualize high-dimensional data in 2D or 3D. It is generally faster and better at preserving overall structure of data compared to other existing methods for dimensionality reduction. We see that both the Hindi and corresponding English data points are similarly distributed in the 2D space, and only a few exhibit significant drifts, once again corroborating our finding of satisfactory translation quality.

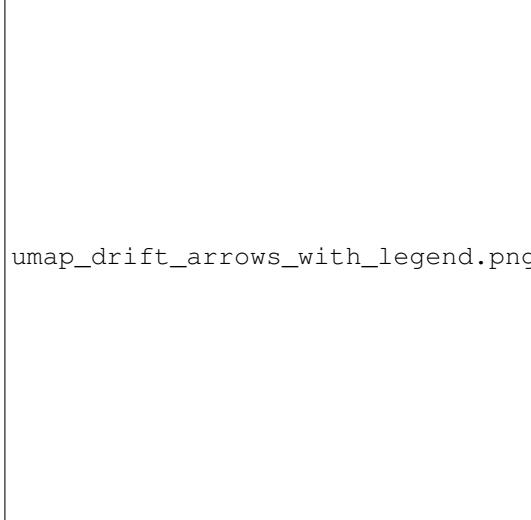


Figure 1: UMAP projection of original (Hindi/Roman) vs translated (English) tweets with drift arrows.

We also performed a manual check of the translated data, to doubly ensure the quality of translations generated. Two annotators (comfortable with Hindi) independently annotated 100 randomly selected examples for their translation quality. A label of 1 was assigned for satisfactory and semantically coherent translation, and 0 was assigned otherwise. This exercise revealed an inter-annotator agreement of [XXX%] and an accuracy of [XXX%], indicating an above par performance of the translation pipeline.

[– need to write about how we will handle values below 0.85 and 0.80- either manual review or treating as mistranslations. The thresholds need to be decided based on an analysis of the empirical distribution.]

#### *Connection to the Enligh pipeline*

#### *Multilingual Model Support*

The Mistral-7B model supports multilingual input, enabling direct processing of Hindi tweets. The few-shot examples for Hindi tweets are constructed with Hindi text while maintaining the same JSON output format.

#### *Fallback Mechanism*

The pipeline implements hierarchical few-shot example retrieval:

1. Attempt to load keyword-specific examples
2. If unavailable, fall back to a global fallback JSON

This ensures robust inference even for keywords without dedicated few-shot examples.

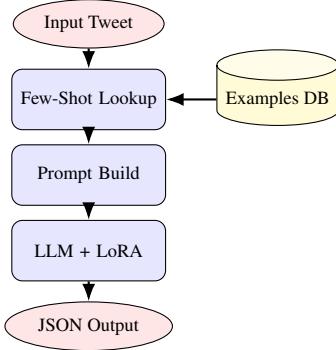


Figure 2: Stance Detection System Architecture

## 5 Results

This section reports the empirical outcomes of the stance classification pipeline applied to Indian political influencer discourse on X. The analysis covers 680,847 tweet–keyword pairs across 38 political keywords, with influencers categorized by political affiliation into Pro-Ruling (462 influencers) and Pro-Opposition (498 influencers) groups. All results are descriptive and focus on observed distributions.

### 5.1 Stance Distribution for Representative Keywords

To illustrate general stance patterns across political affiliations, we selected three keywords predominantly discussed by Pro-Ruling influencers and three keywords predominantly discussed by Pro-Opposition influencers. This selection was based on keyword frequency analysis, identifying topics where each group exhibited higher engagement volumes. Figure 3 presents the stance distribution for these six representative keywords.

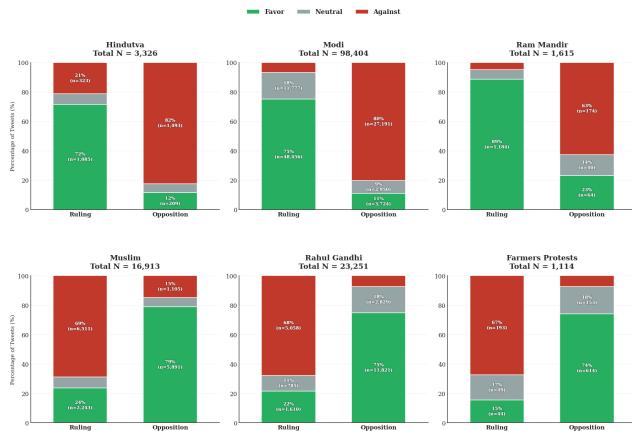


Figure 3: Stance distribution for six representative keywords, showing proportions of favor, against, and neutral stances by political affiliation.

The visualization shows that for Pro-Ruling dominated keywords (*ram\_mandir, aatmanirbhar, modi*), Pro-Ruling influencers exhibit predominantly *favor* stances. Conversely,

for Pro-Opposition dominated keywords (*farmers\_protests, rahulgandhi, shaheen\_bagh*), Pro-Opposition influencers exhibit predominantly *favor* stances while Pro-Ruling influencers show higher proportions of *against* stances.

### 5.2 Normalized Favor Rates Across Keywords

Figure 4 displays normalized favor rates for each keyword using a butterfly chart. Pro-Ruling favor percentages are plotted on the right axis and Pro-Opposition favor percentages on the left. Normalization is performed within each keyword to account for differences in keyword frequency and tweet volume.

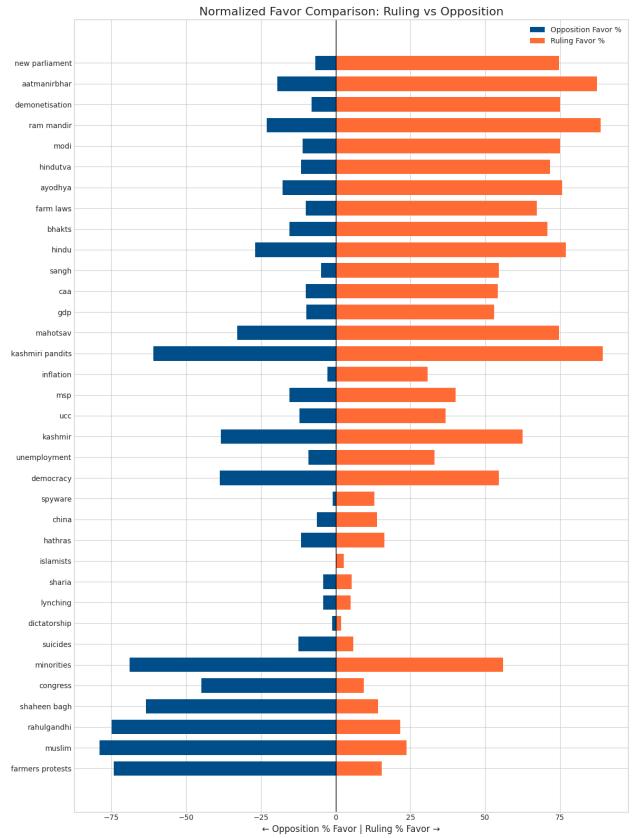


Figure 4: Butterfly chart showing normalized favor rates by keyword, comparing Pro-Ruling (right) and Pro-Opposition (left) influencers.

**Findings.** Keywords with the longest Pro-Ruling bars include *islamists, mahotsav, aatmanirbhar, ram\_mandir, and ayodhya*—showing near-complete Pro-Ruling favor dominance. Keywords with the longest Pro-Opposition bars include *unemployment, bhakts, farmers\_protests, shaheen\_bagh, and demonetisation*—showing strong Pro-Opposition favor dominance. Keywords near the center (e.g., *china, kashmir*) show more balanced favor distributions. The chart reveals a bimodal pattern: keywords tend to skew strongly toward one political side rather than showing moderate favor from both.

### 5.3 Keyword-Level Stance Divergence

Figure 5 presents a scatter plot capturing three dimensions of keyword-level stance behavior: **stance divergence** (position), **divergence magnitude** (color), and **tweet volume** (point size). For each keyword, the X-coordinate represents the favor rate difference ( $X = \text{Favor}_{\text{PR}} - \text{Favor}_{\text{PO}}$ ) and the Y-coordinate represents the against rate difference ( $Y = \text{Against}_{\text{PR}} - \text{Against}_{\text{PO}}$ ). Keywords farther from the origin exhibit greater stance divergence. Point color encodes  $|X|$  (favor divergence magnitude), while point size corresponds to tweet volume.

Table 9: Quadrant Interpretation for Stance Divergence Plot

Quadrant	Condition	Interpretation
I	$X > 0, Y > 0$	PR higher favor and against
II	$X < 0, Y > 0$	PO favor, PR against
III	$X < 0, Y < 0$	PO higher favor and against
IV	$X > 0, Y < 0$	PR favor, PO against

Note: PR = Pro-Ruling, PO = Pro-Opposition

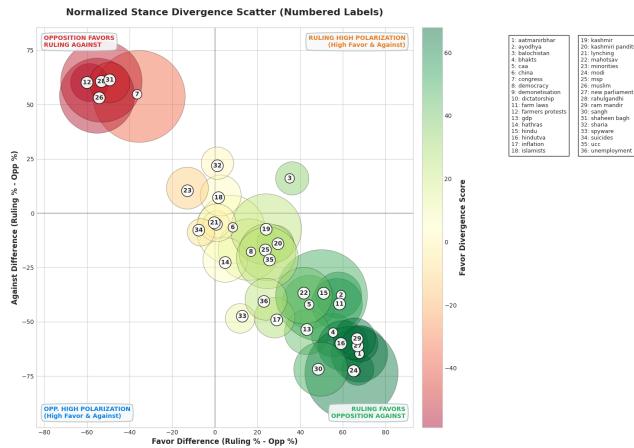


Figure 5: Keyword-level stance divergence scatter plot. X-axis: favor rate difference; Y-axis: against rate difference. Point size indicates tweet volume; color indicates favor divergence magnitude.

**Findings.** Keywords such as *modi*, *ram.mandir*, and *aatmanirbhar* cluster in Quadrant IV (lower-right), where Pro-Ruling influencers express predominantly *favor* stances while Pro-Opposition influencers express *against* stances. Conversely, *rahulgandhi*, *farmers\_protests*, and *shaheen\_bagh* cluster in Quadrant II (upper-left), showing the inverse pattern. Keywords near the origin (e.g., *china*, *kashmir*) exhibit minimal divergence, indicating similar stance distributions across affiliations. Notably, larger points (high-volume keywords) tend to be positioned farther from the origin, and the most intensely colored points appear at the horizontal extremes, confirming that favor divergence is the primary driver of keyword-level polarization.

### 5.4 Complete Stance Distribution by Keyword

Figure 6 presents the full stance distribution for each keyword, disaggregated by political affiliation. Each keyword displays proportions of favor, neutral, and against stances for both Pro-Ruling and Pro-Opposition influencers.

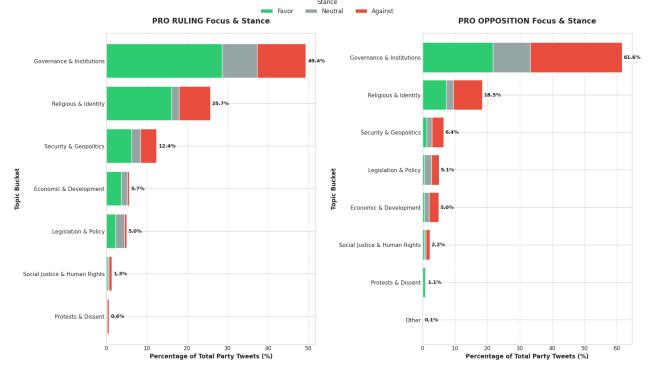


Figure 6: Stance distribution by keyword and political affiliation, showing proportions of favor, neutral, and against stances.

To organize keywords into meaningful thematic categories, we employed Google’s Gemini model. The model was provided only with the list of 38 keywords and prompted to create thematic buckets based on its knowledge of Indian political discourse. Table 10 presents the resulting keyword categories.

Table 10: Keywords Grouped by Thematic Category (Generated using Gemini)

Category	Keywords
Favor-dominant (both)	ayodhya, mahotsav, ucc
Against-dominant (both)	inflation, unemployment, suicides
Split (PR favor, PO against)	modi, ram.mandir, aatmanirbhar, hindutva, farm.laws, caa
Split (PO favor, PR against)	rahulgandhi, congress, farmers_protests, shaheen_bagh, muslim
Mixed neutral (>20%)	china, gdp, democracy, minorities

Note: PR = Pro-Ruling, PO = Pro-Opposition

## 6 Discussion

We study political discourse of Indian influencers in this paper to understand if they exhibit polarization with respect to various social and political issues. In this direction, we first develop a proxy for their political leaning using the number of political retweets they receive around their tweets. Next, we analyze the stance of their tweets around different aspects, using an SLM fine-tuned on their tweets. Our findings conclusively prove that most Indian influencers are significantly partisan when it comes to their tweets on various aspects. The aggregate partisanship also is dichotomous in nature, wherein there exists two distinct

communities of influencers, one in favor of the ruling dispensation and the other against it.

There are several nationally and regionally prominent political parties functioning in India. However, the dichotomy that we observe in the influencer discourse provides concrete indication of the highly bipolar nature of the Indian polity. We see that influencers with a significant political leaning towards the ruling dispensation disproportionately favor issues like *Hindutva*, *Hinduism*, *Kashmiri Pandits* and write against *farmer's protests*, *muslims*, *bharatjodoyatra*. On the other hand, the pro-opposition influencers follow the exact opposite trend around the same issues. We thus see a clear trend of influencers kowtowing their favorite party lines. With the recent trend of increasing religious and political polarization in India [ref], this especially does not augur well. Influencers are highly popular figures, many of whom are revered and closely followed on social media by numerous users. A bipolar nature of the influencer discourse thus amplifies the extant biases in the society, thereby leading to a fragmented democracy.

We also see that these trends are uniformly observed for both English and Hindi tweets, indicative of the fact that the observed polarization holds across languages. In a country where a significant fraction of the social media population consumes tweets in Hindi [ref], this is a sign of a polarized political discourse cutting across linguistic borders.

The topical analysis of tweets reveals ...

This work comes as a timely intervention around influencer polarization in India, provided that several recent studies have targeted similar research questions. Our work acts as a formative step towards large-scale analysis of influencer discourse on social media (from 2020–2023). A major contribution of this study is the development of a generalizable research framework to study aspect based stance on social media. While we study influencer discourse in India corresponding to two languages, the framework is applicable to any geography and can be extended to work on other languages as well. The use of an SLM to perform stance analysis also highlights the need to incorporate low-infrastructure methods to perform large-scale data analysis.

As part of future work, we intend to extend the study to

other regional languages in India, to see if similar trends are observed. Furthermore, while the current work focuses on an overall analysis of influencer discourse, a temporal study capturing the evolution of influencer leaning and discourse partisanship can be undertaken. The current study only considers influencer tweets that have received at least one political retweet (retweet by a politician). However, it would be interesting to include other tweets on similar aspects, followed by a stance analysis. A comparative analysis of the trends can then provide us with stronger empirical evidence of partisanship in tweets, irrespective of the political endorsements received by them.

## 7 Conclusion

In this paper, we examined the political discourse of Indian influencers to assess the extent and nature of polarization across a range of social and political issues. To this end, we first proposed a proxy to infer influencers' political leanings based on the political retweets received in response to their content. We then analyzed the stances expressed in their tweets with respect to different issue-specific aspects, leveraging a small language model fine-tuned on influencer-generated data. Our analysis provides strong empirical evidence that a majority of Indian influencers exhibit pronounced partisanship in their engagement with these issues. Furthermore, polarization at the aggregate level is distinctly dichotomous, revealing the presence of two well-defined communities of influencers—one broadly aligned with the ruling dispensation and the other positioned in opposition. These findings highlight the influential role of content creators in shaping and reinforcing polarized political discourse on social media platforms.

## 8 Conclusion

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