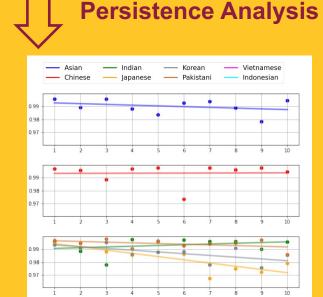
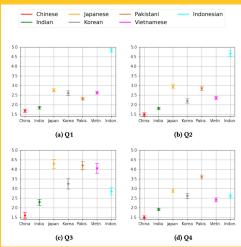
RQ1: (a) Are there changes in the magnitude of anti-Asian messages over time?
(b) How do the trends over time vary across different ethnic groups?



Nuanced differences exits in the temporal patterns when the data are disaggregated by ethnicity. RQ2: (a) How semantically distant are anti-Asian messages when comparing those aimed at Asians in a general sense to those directed at specific sub-ethnic groups?

(b) How do the semantic distances change over time?

Multiple Correspondence
Analysis (MCA)



Toxic anti-Asian messages vary over time and target different sub-Asian ethnicities.

RQ3: (a) How are these topics distributed among messages targeting Asians in a general sense, those targeting major ethnic groups like Chinese and Indian, and those directed at smaller ethnic groups?

(b) What are the prevalent topics of anti-Asian messages?



Group	Topic	Prob.	Representative words
	1		
Asian	Asian-on-other-race-trop	0.474	black, white, racist
Chinese	Hate against Chinese commu-	0.408	realdonaldtrump, commu-
	nism		nist, government
Indian	India-Pakistan tension	0.643	terrorist, muslim, country
OtherAsian	Blasphemy surrounding K-pop	0.228	kpop, fan, bitch
	Anti-Pakistan	0.187	terrorist, muslim, country

Narratives targeting different groups have clear thematic differences in intensity and topic focus.