Twitter Sentiment Analyzer & Response Manager



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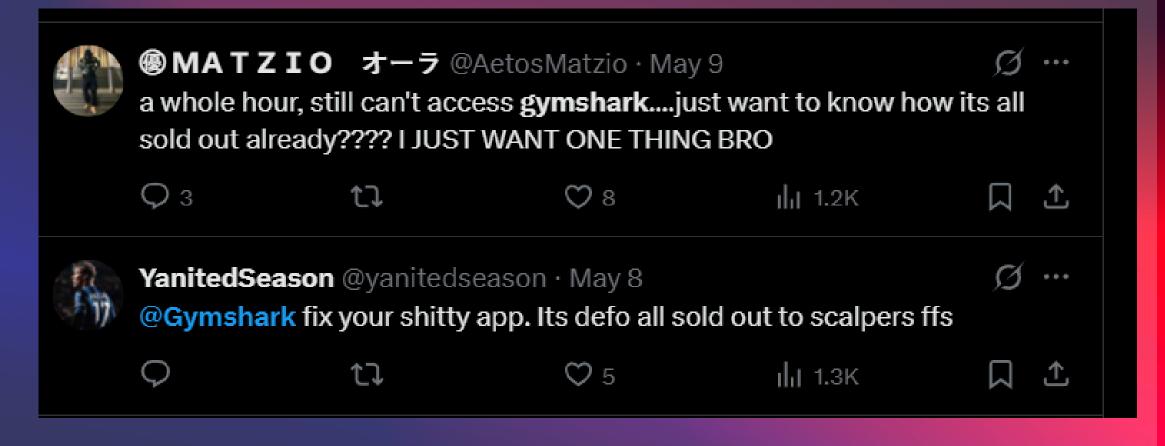
Motivation?

Say I'm a brand, I want to track how people receive my products on Twitter

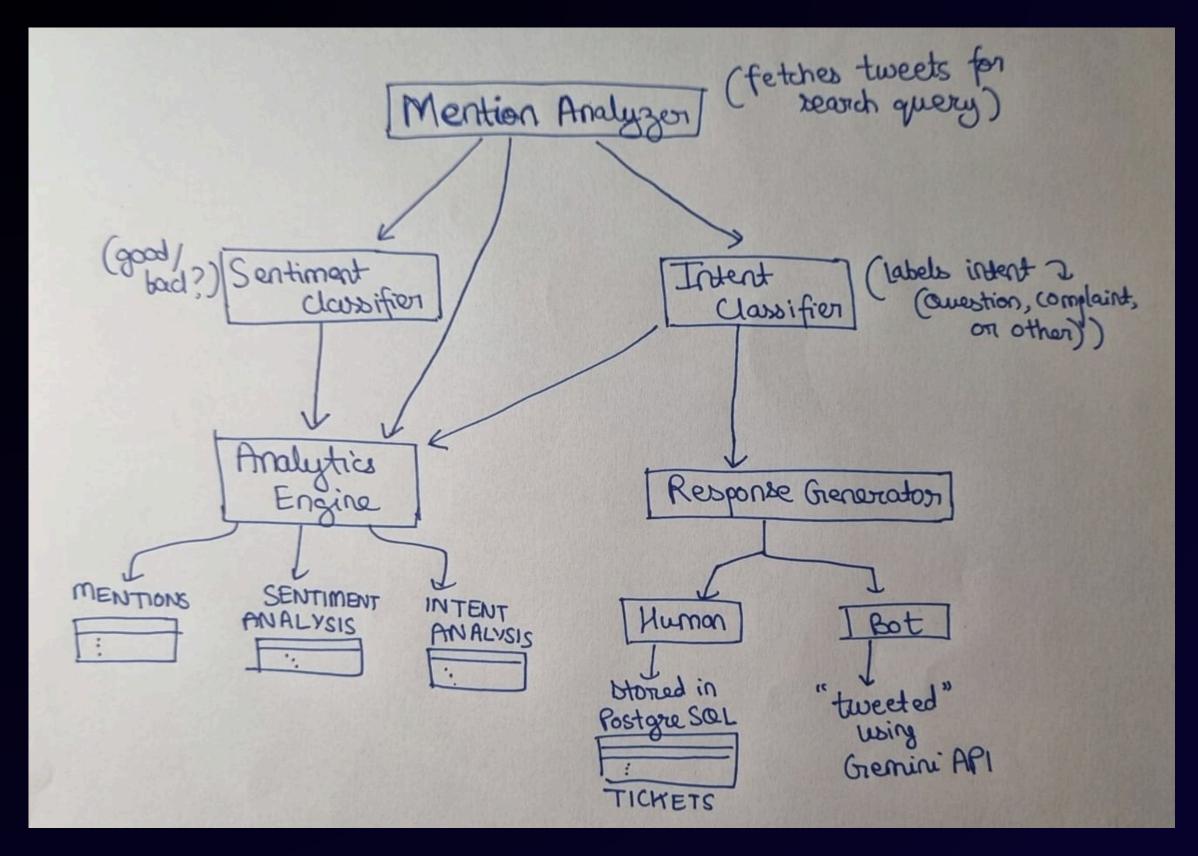
My brand image on Twitter matters

I need a way to quickly resolve easy to answer queries + complains that require human intervention

Search keyword - "gymshark"



Flow / Architecture



Microservices:

- mention analyzer
- sentiment classifier
- intent classifier
- response generator
- analytics engine



Sentiment Analyzer

Intent Classifier

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GenAl Usage

Automated Bot Responses

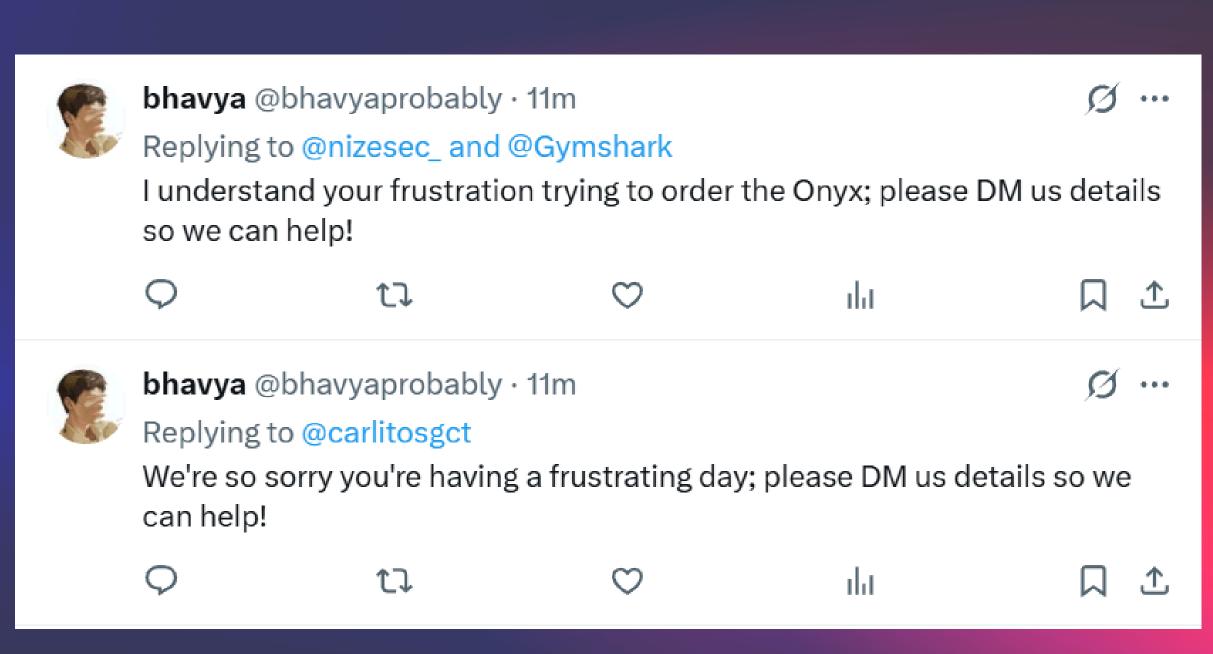
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automated reply!

Gemini API bot automatically replies to bot type responses, i.e. easy to handle replies





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Ticket Support

Stores queries that need human attention/bot can't answer

Support Tickets

	tweet_url	tweet_text	intent	status	created_at
10	https://x.com/yanitedseason/status/1920544011598561553	@Gymshark fix your shitty app. Its defo all sold out to scalpers ffs	question	open	2025-05-11 22:52:14
9	https://x.com/ImBaIL_/status/1920559318308372833	@itsofficialdamo @BenFrancis1992 @Gymshark If they weren't they should hand over the	complaint	open	2025-05-11 22:52:14
8	https://x.com/AetosMatzio/status/1920553129466069136	a whole hour, still can't access gymsharkjust want to know how its all sold out already?	question	open	2025-05-11 22:52:14
7	https://x.com/ImBaIL_/status/1920559609938330079	@Hxzzaaa1 @Gymshark Because they have hyped this up for eons and can't even handle	question	open	2025-05-11 22:52:14
6	https://x.com/JoseLMinero/status/1920554763063562602	Can't add a single thing to my cart @Gymshark	complaint	open	2025-05-11 22:52:14
5	https://x.com/lolmachttoll/status/1920566598055739868	@Gymshark I'm sitting here with my brother for 2 hours i don't even know what I'm doing	complaint	open	2025-05-11 22:52:14
4	https://x.com/nizesec_/status/1920543418368803293	@Gymshark TAKE MY MONEY I ONLY WANT THE FUCKING ONYX PLEASSEE	complaint	open	2025-05-11 22:52:14
3	https://x.com/Shadow_Gaming7/status/1921317311090229391	@Gymshark My mental health will for be declining without an onyx 💔	complaint	open	2025-05-11 22:52:14
2	https://x.com/nizesec_/status/1920541349457076371	@Gymshark fix your site I want to get the fucking onyx so bad	question	open	2025-05-11 22:52:14

Product Analytics

Everything a brand manager can ever want...



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Technologies Used

Code	JS	
Test	Jest	
Gen Ai	Gemini	
Integrating microservices	Kafka	
UI	Streamlit	
Deployment	Google Cloud	

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Challenges faced

- Scraping Twitter (no access to API)
- Tokens Potential Expiration
- Integration with microservices (kafka)
- NLP based classifiers must be trained on good data
- Tweet text can be misleading (cannot trust 100%)