

GABIBOT

Generative Deep Learning

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INDEX

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01 CONTEXT

02 WORKFLOW

03 NEXT STEPS

04 CONCLUSIONS

05 FINAL RESULTS

::::::: LET'S CHAT 'BOUT BOTS :::::::



WHAT'S A CHATBOT?

Computer program which conducts a conversation.

Types:



RULE BASED

These bots can answers questions based on the rules on which they were trained.

For/If loops are used.



SELF-LEARNING CHATBOTS

They rely on Artificial Intelligence (AI) and Machine Learning (ML).



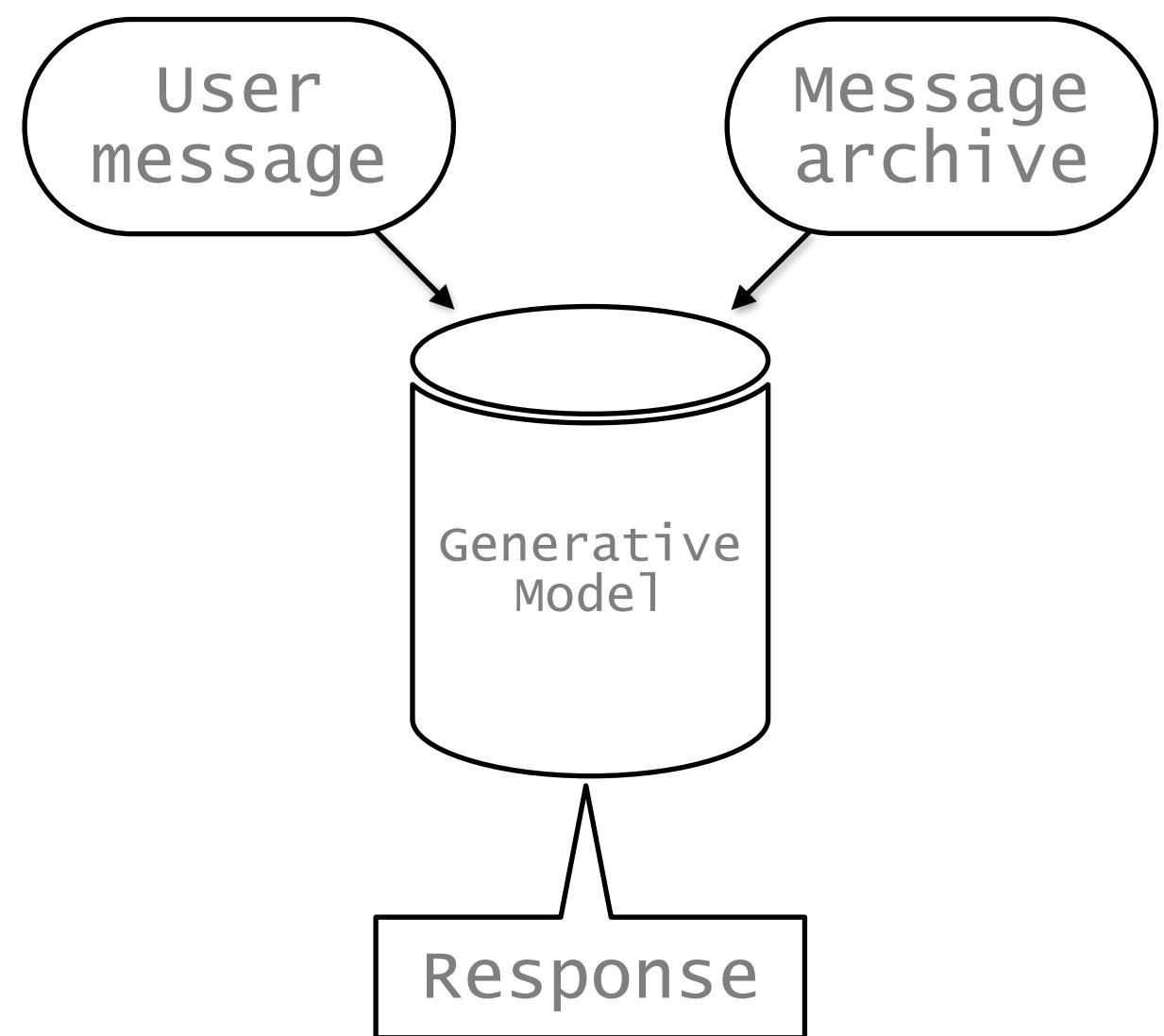
RETRIEVAL BASED

Retrieves the answer, the bot considers best ranked, from a finite set of responses.



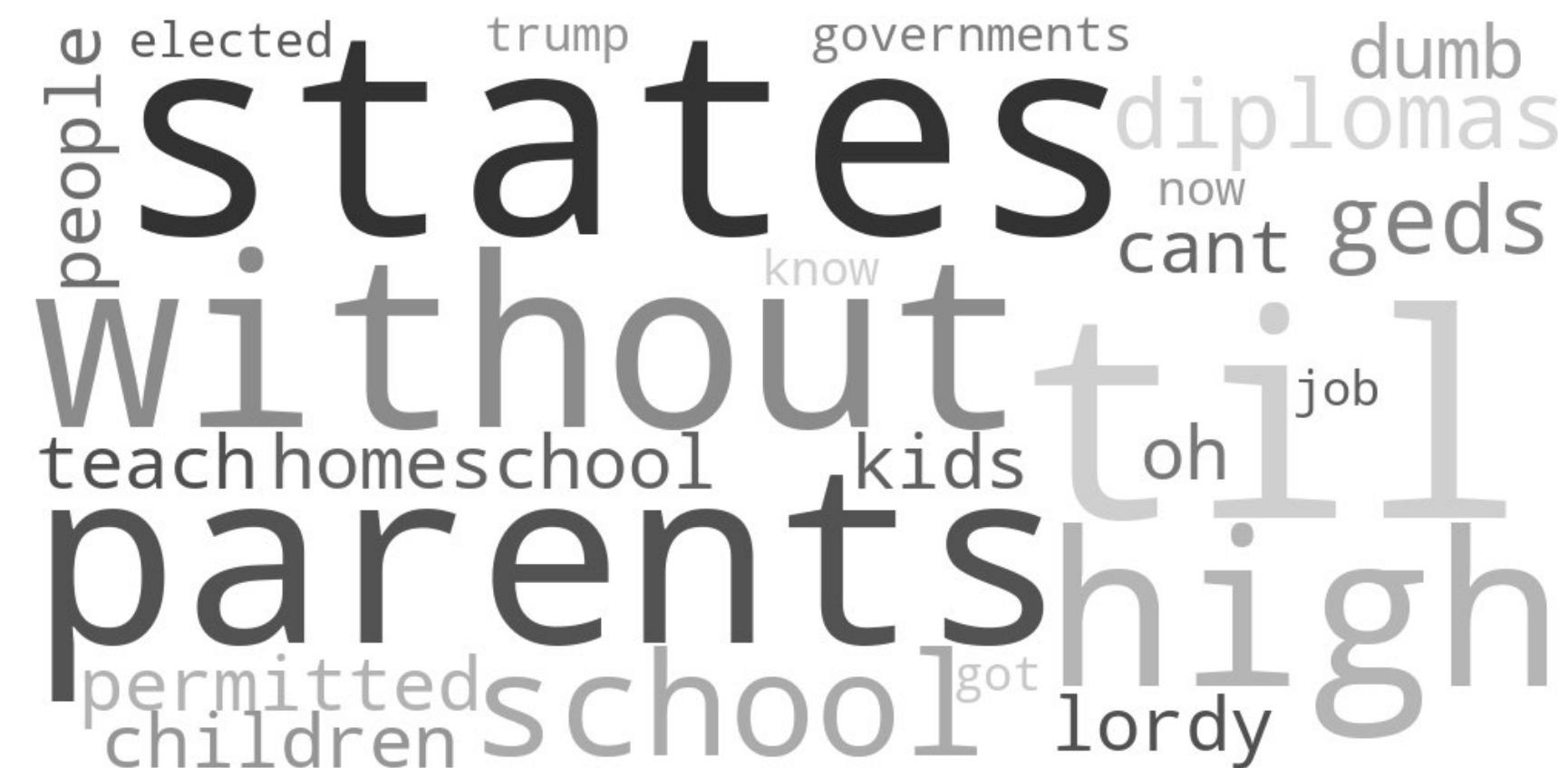
GENERATIVES

Don't have predefined responses, they are trained with previous conversations from which the responses are... surprise... generated.



THE MAP THERE...

.....



people elected trump governments dumb diplomas geds now cant geds
states
 without know teach homeschool kids oh job
parent Shigh permitted school got lordy
 children



DECIDING THE OUTPUT

SARC - Self-Annotated Reddit Corpus

1.3 million sarcastic statements

Created by Princeton University

-Comment: Jindal being super smug about volcano monitoring
 -Reply 1: Who ever heard of a volcano causing problems for people?
 -Reply 2: you'd think someone from Louisiana, of all places, would understand the importance of early warnings for natural disasters

All: Jindal being super smug about volcano monitoring Who ever heard of a volcano causing problems for people? you'd think someone from Louisiana, of all places, would understand the importance of early warnings for natural disasters



DECIDING THE OUTPUT

SARC - Self-Annotated Reddit Corpus



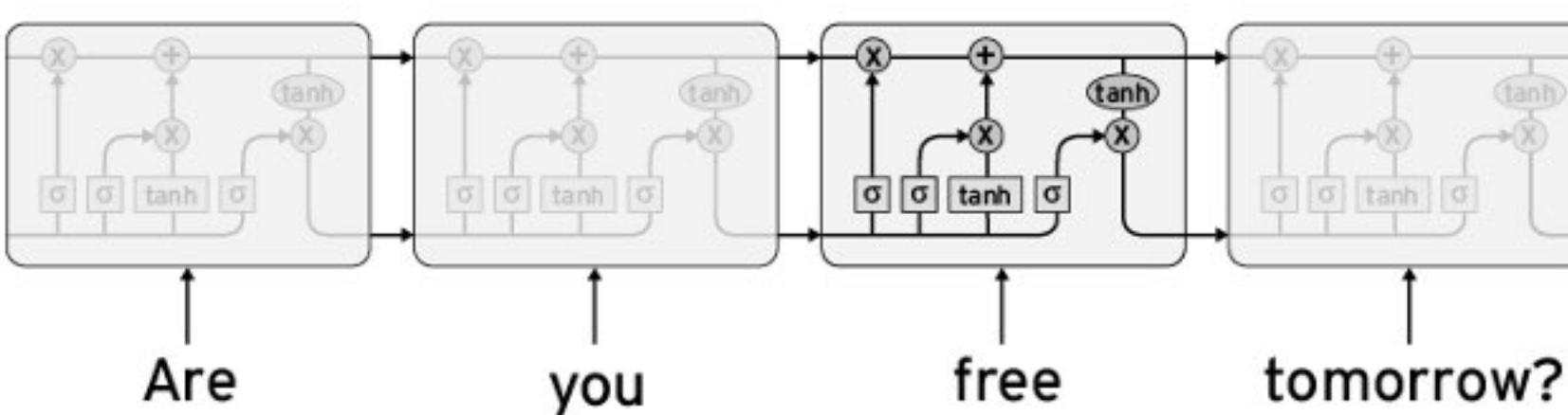
MAKING DECISIONS

GENERATIVE MODEL

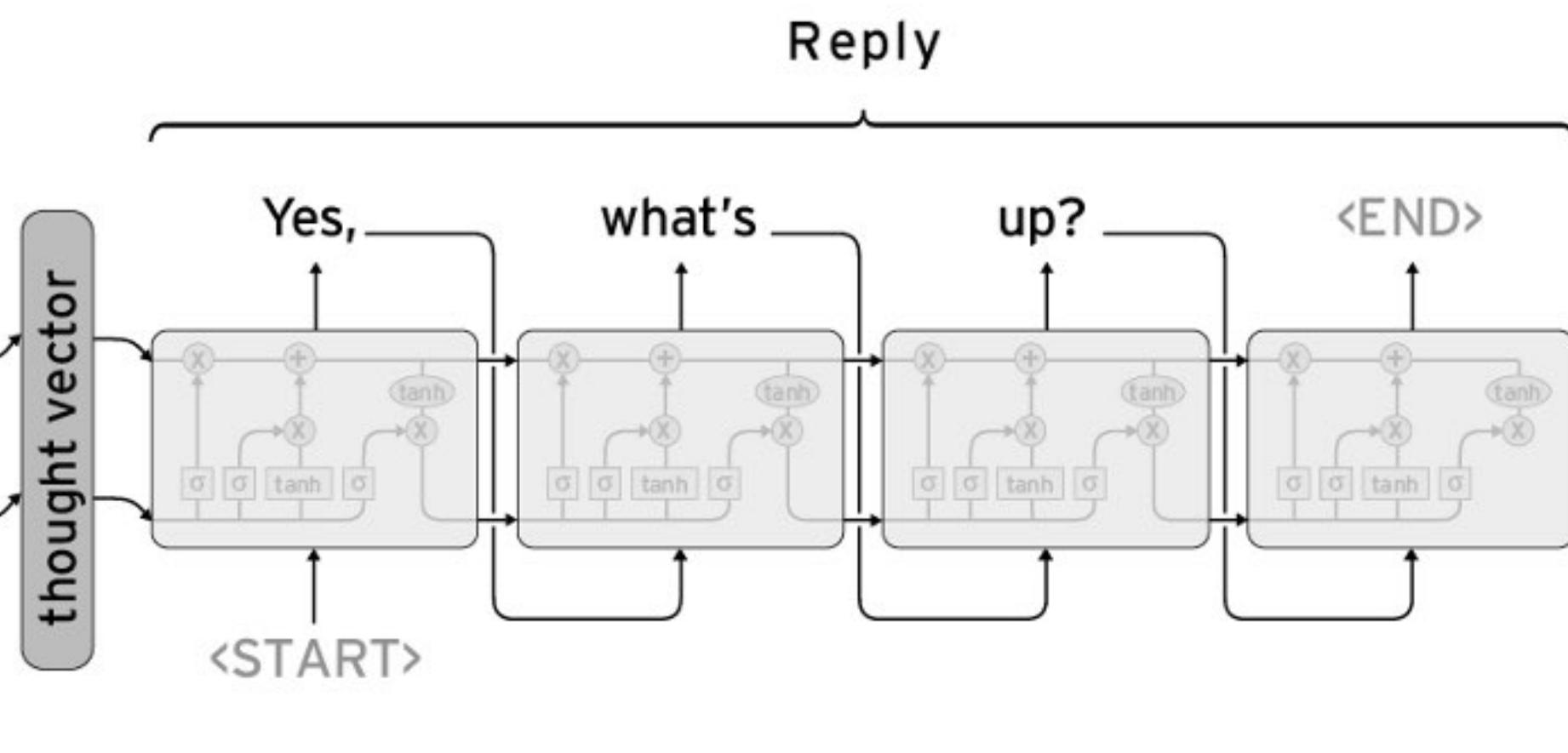
Keras - LSTM

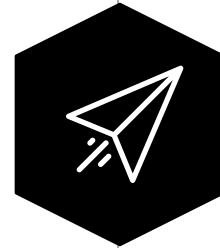
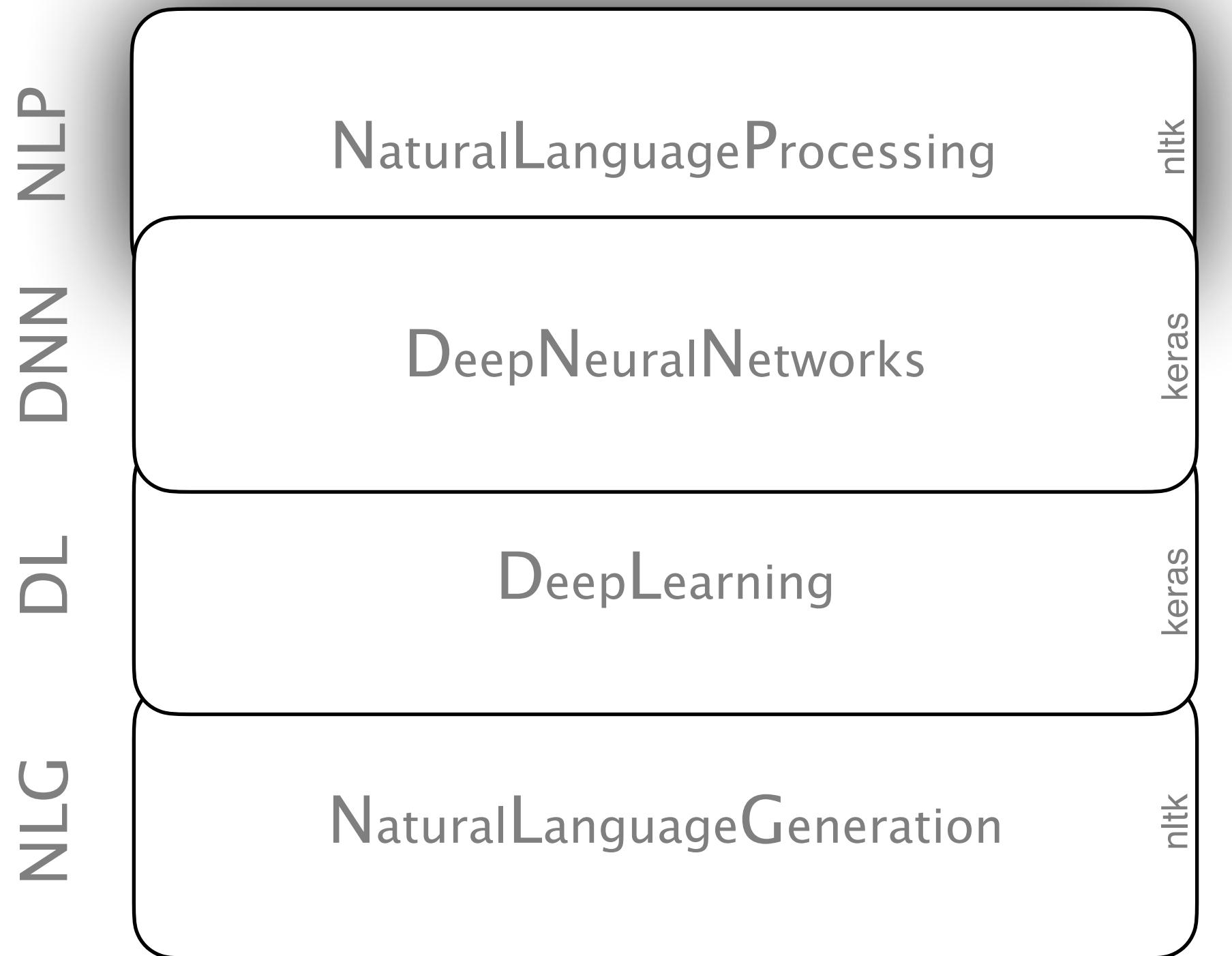
Embedding

Coding - Decoding

ENCODER

Incoming Email

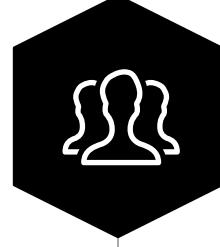
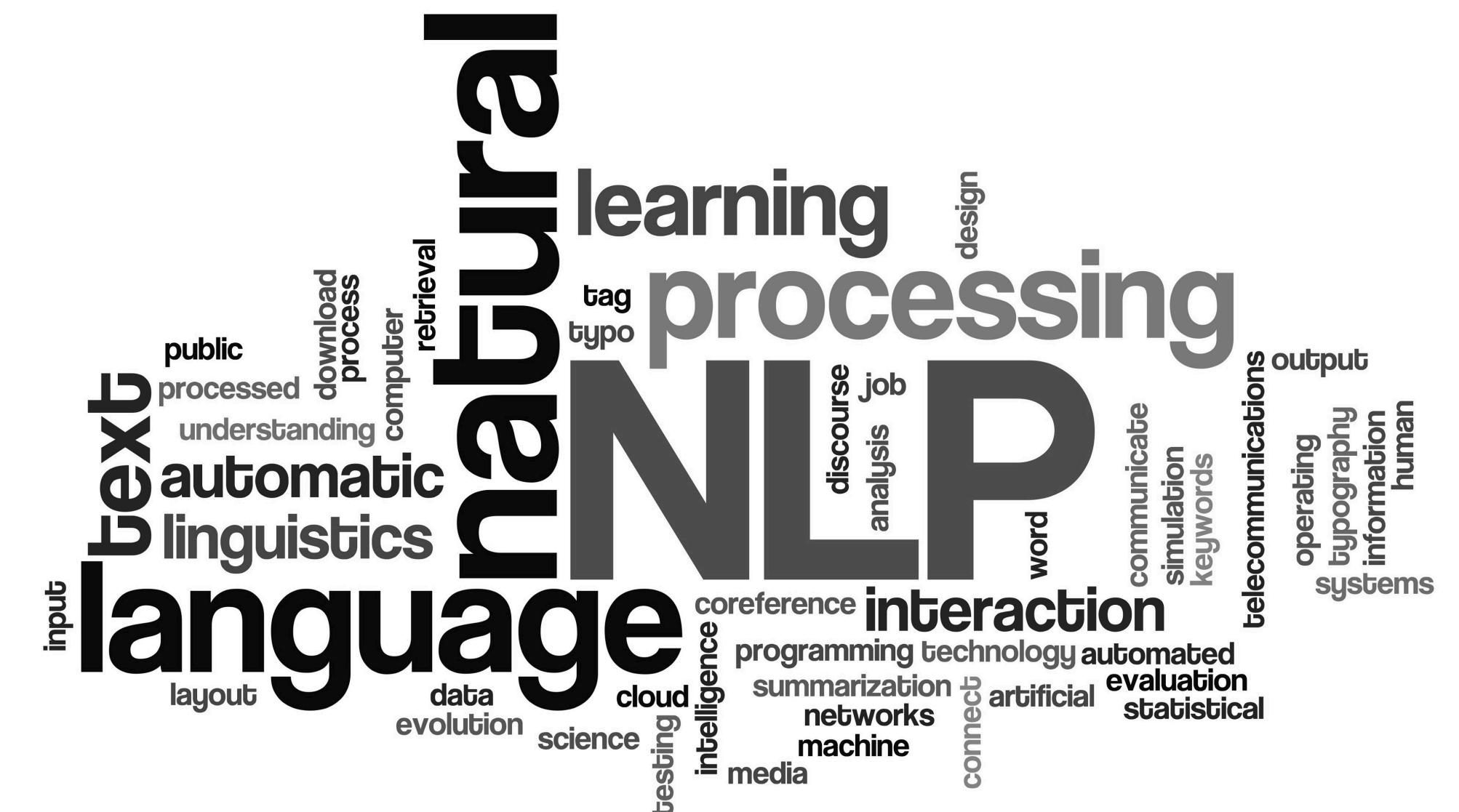
**DECODER**



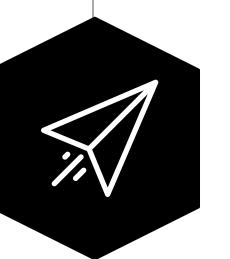
PROGRAMMING

SPLIT, FIT, PREDICT

Unifying SARC & the Generative Model



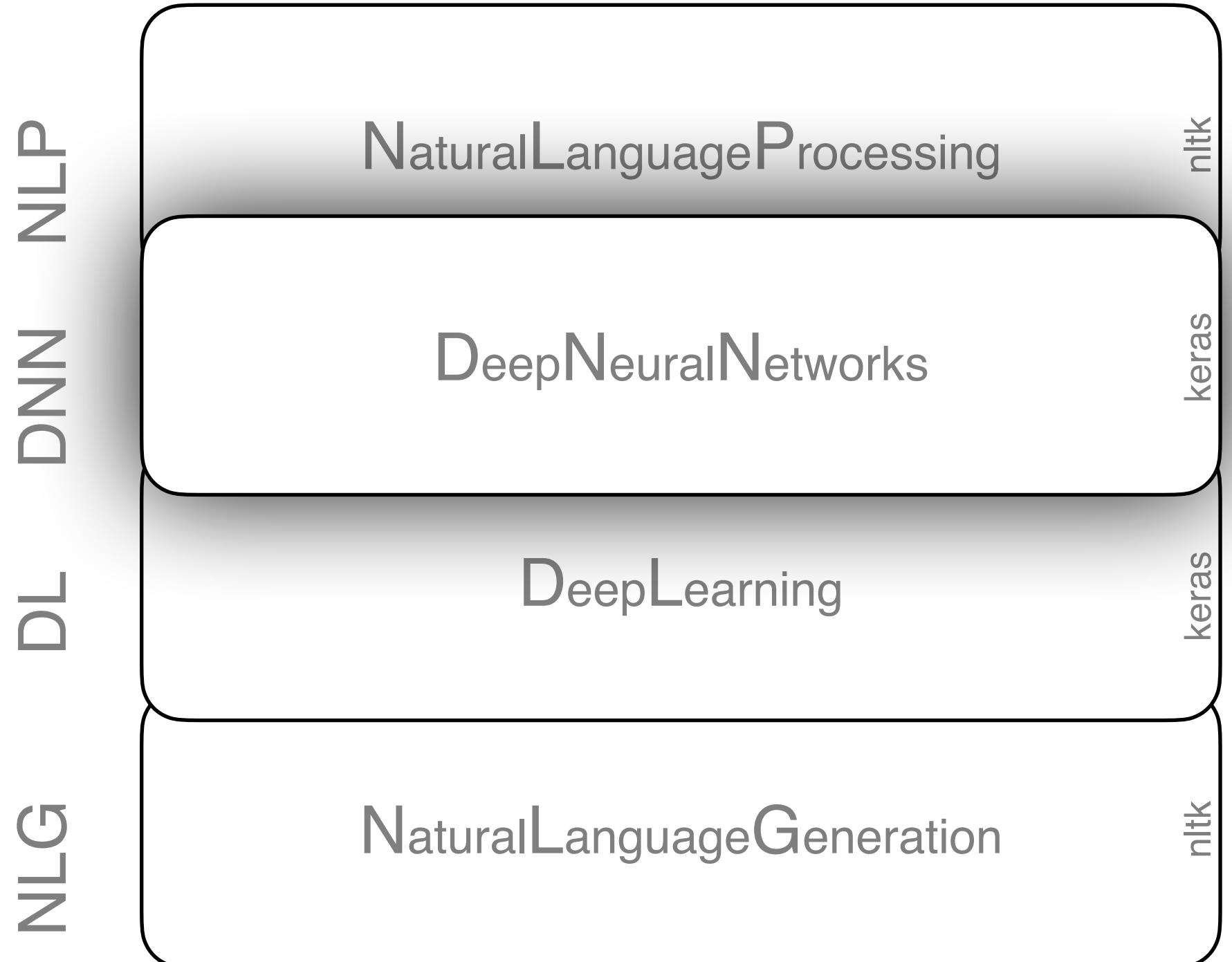
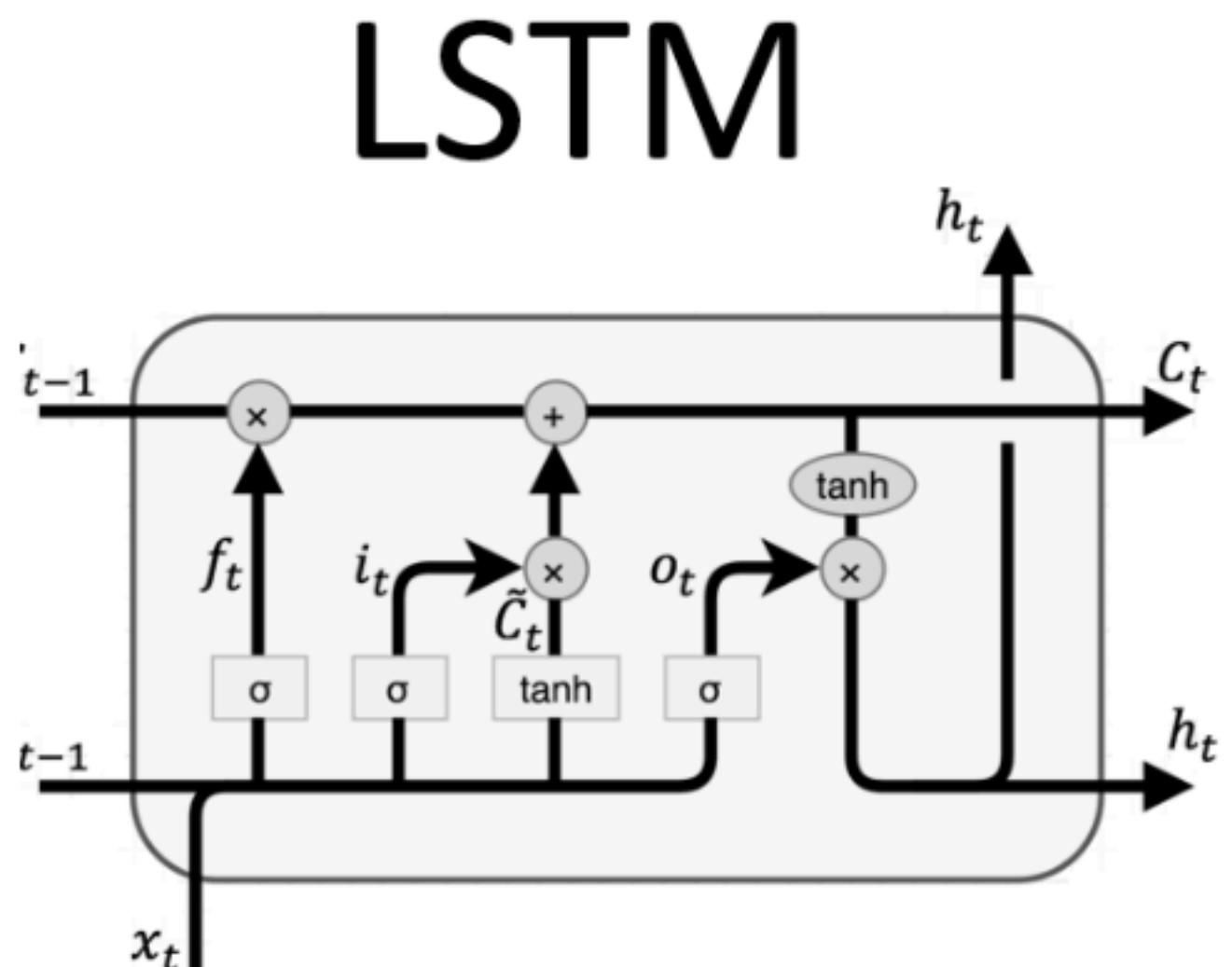
CHATBOT PLATFORMS

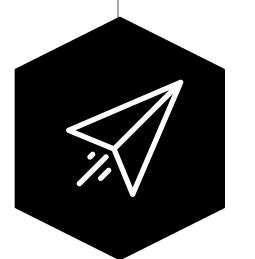


PROGRAMMING

SPLIT, FIT, PREDICT

Unifying SARC & the Generative Model

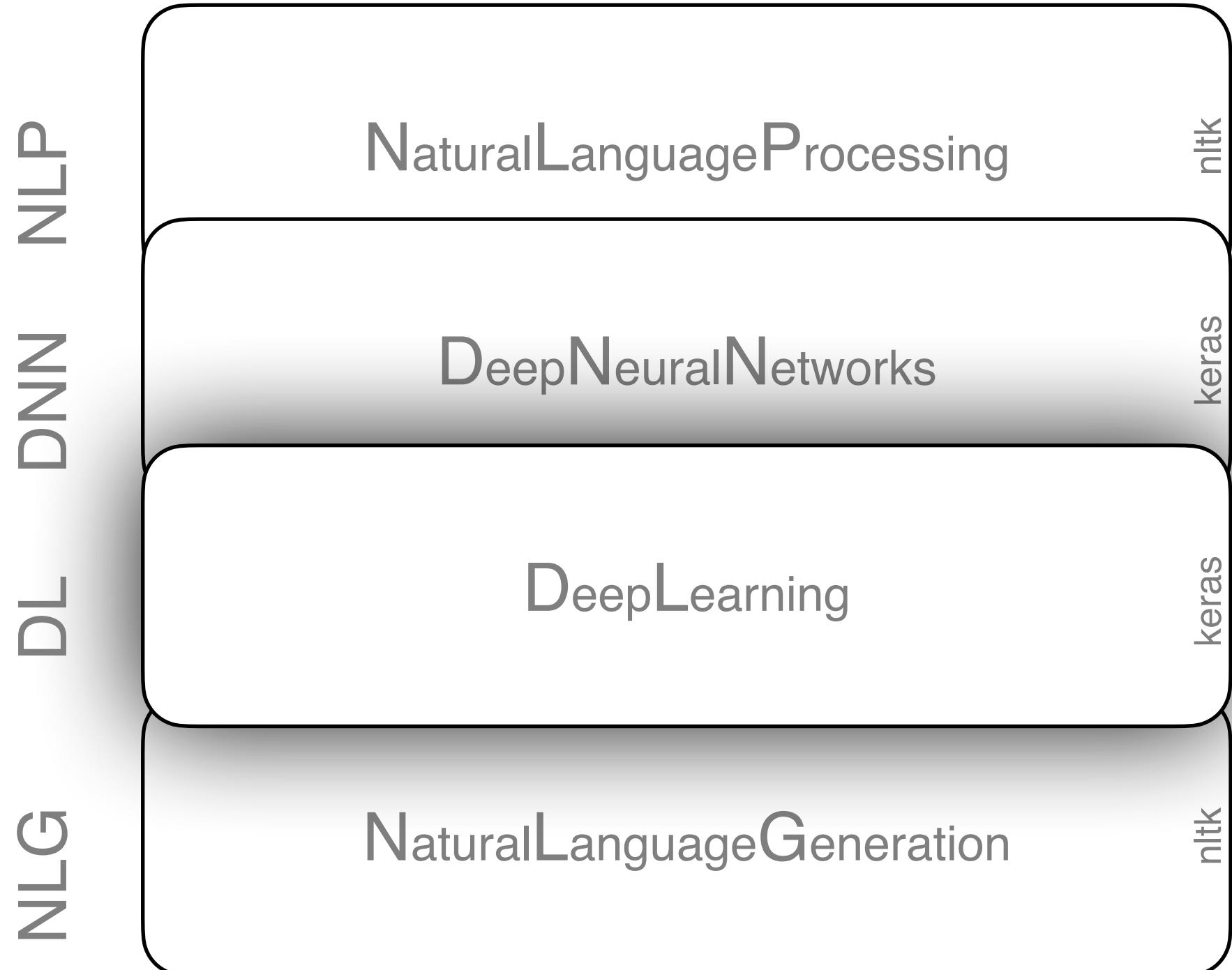
CHATBOT
PLATFORMS



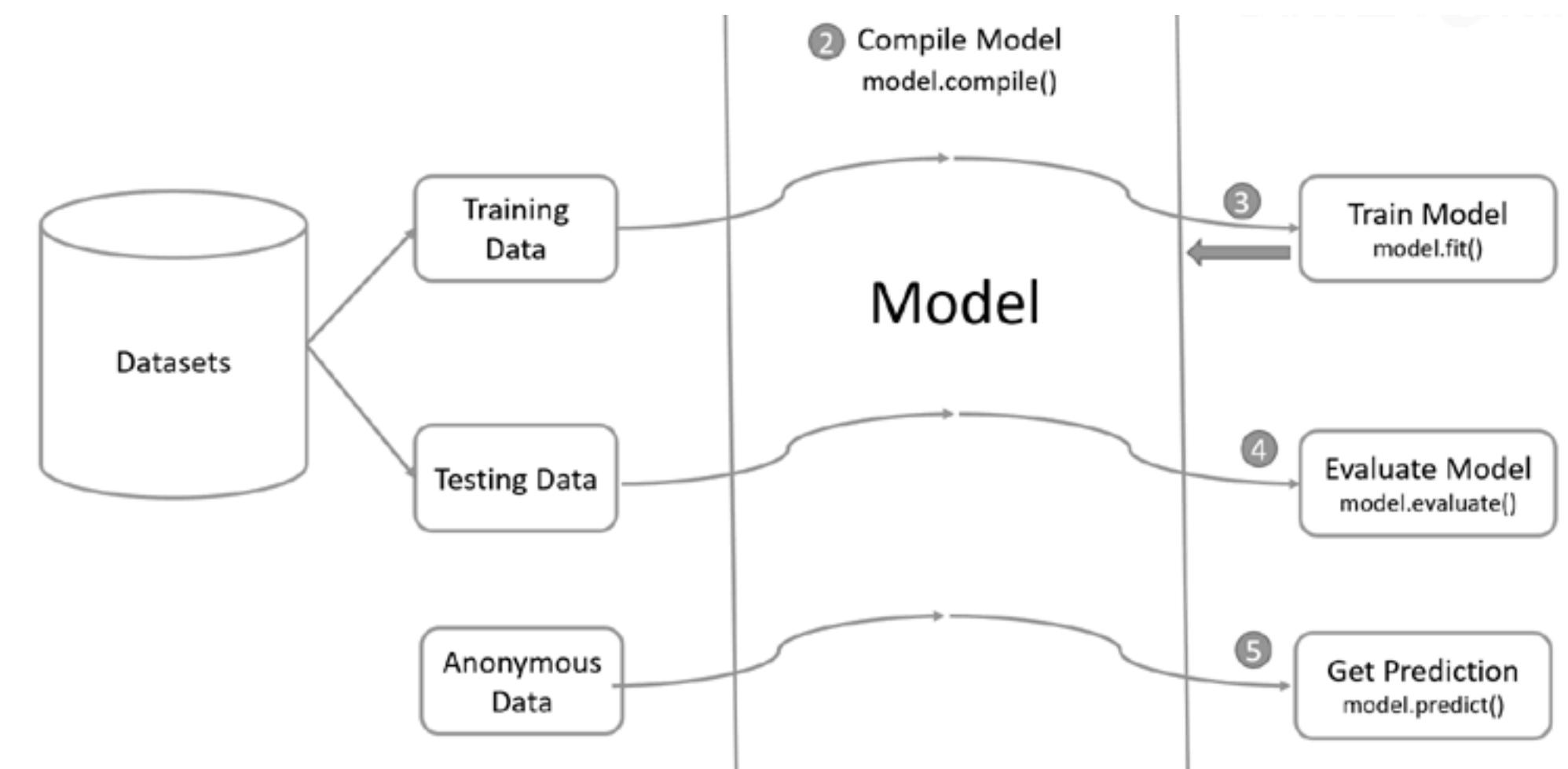
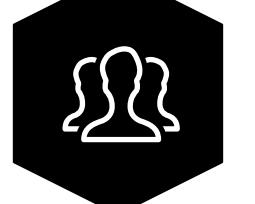
PROGRAMMING

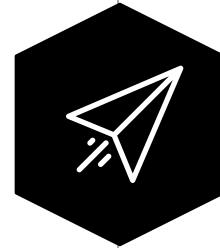
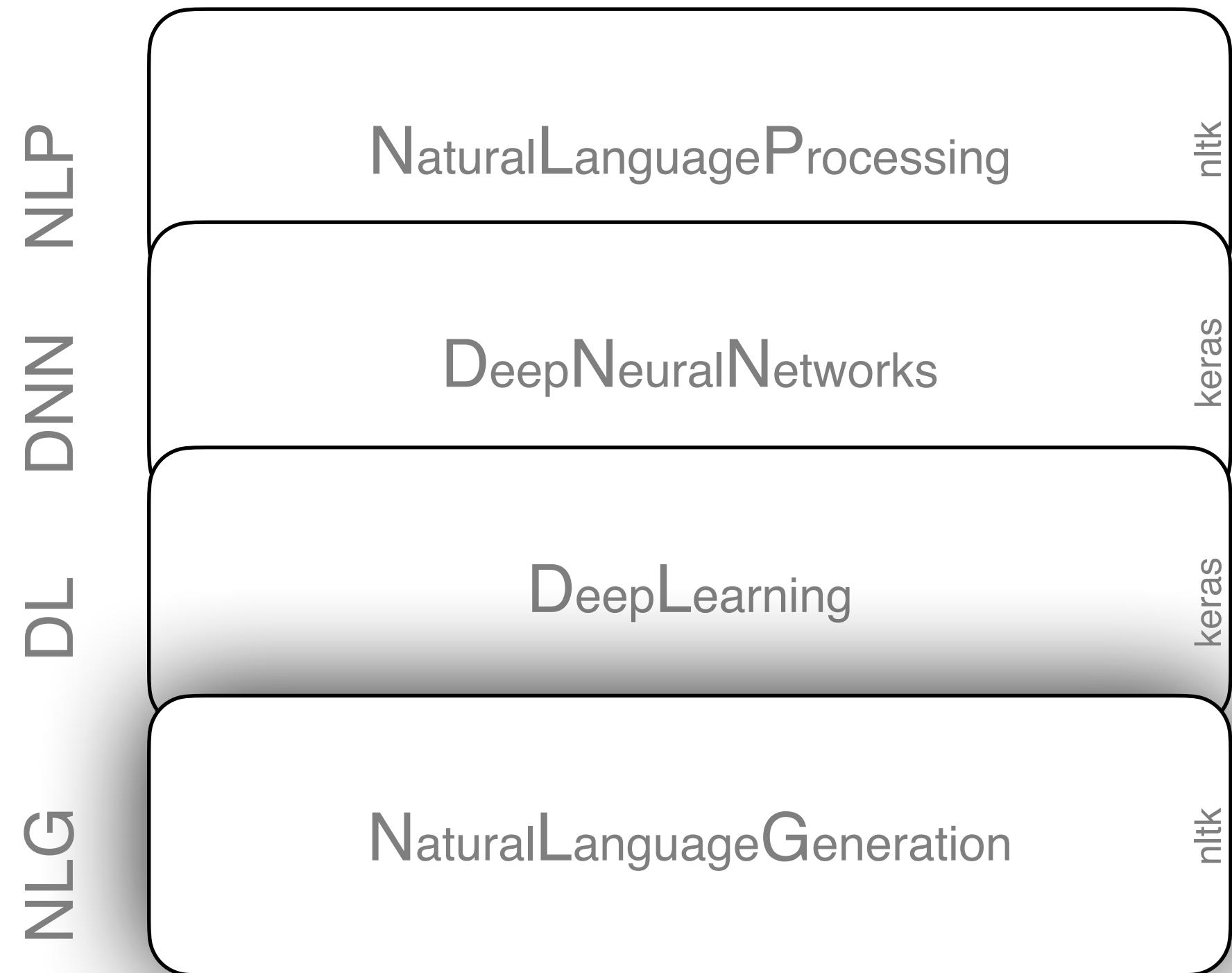
SPLIT, FIT, PREDICT

Unifying SARC & the Generative Model



CHATBOT
PLATFORMS

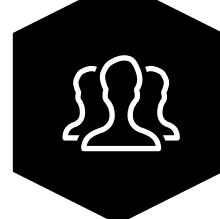
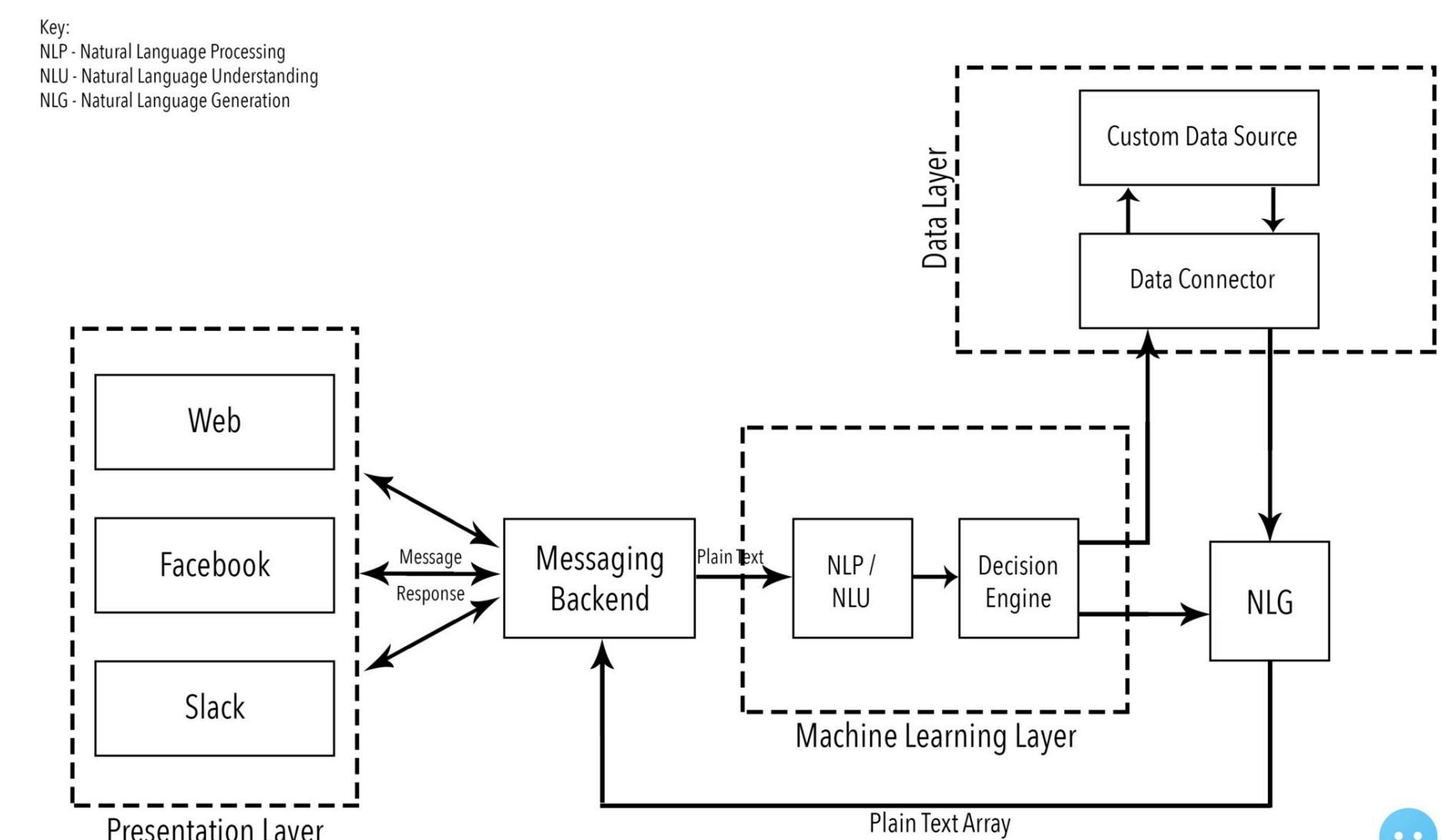


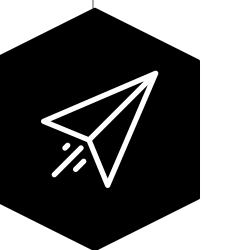
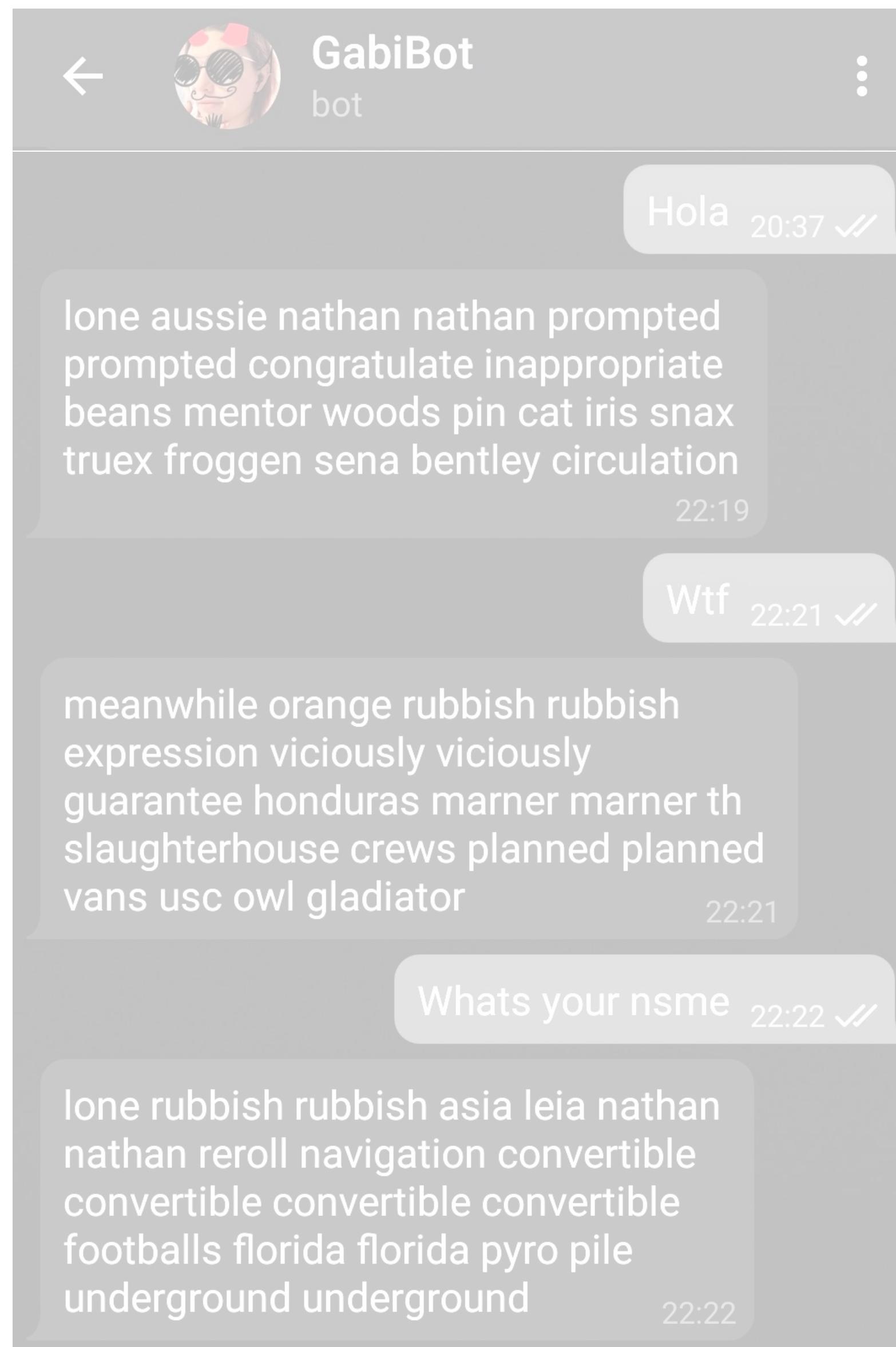


PROGRAMMING

SPLIT, FIT, PREDICT

Unifying SARC & the Generative Model

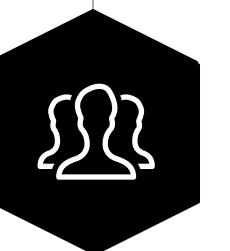


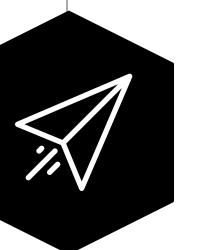
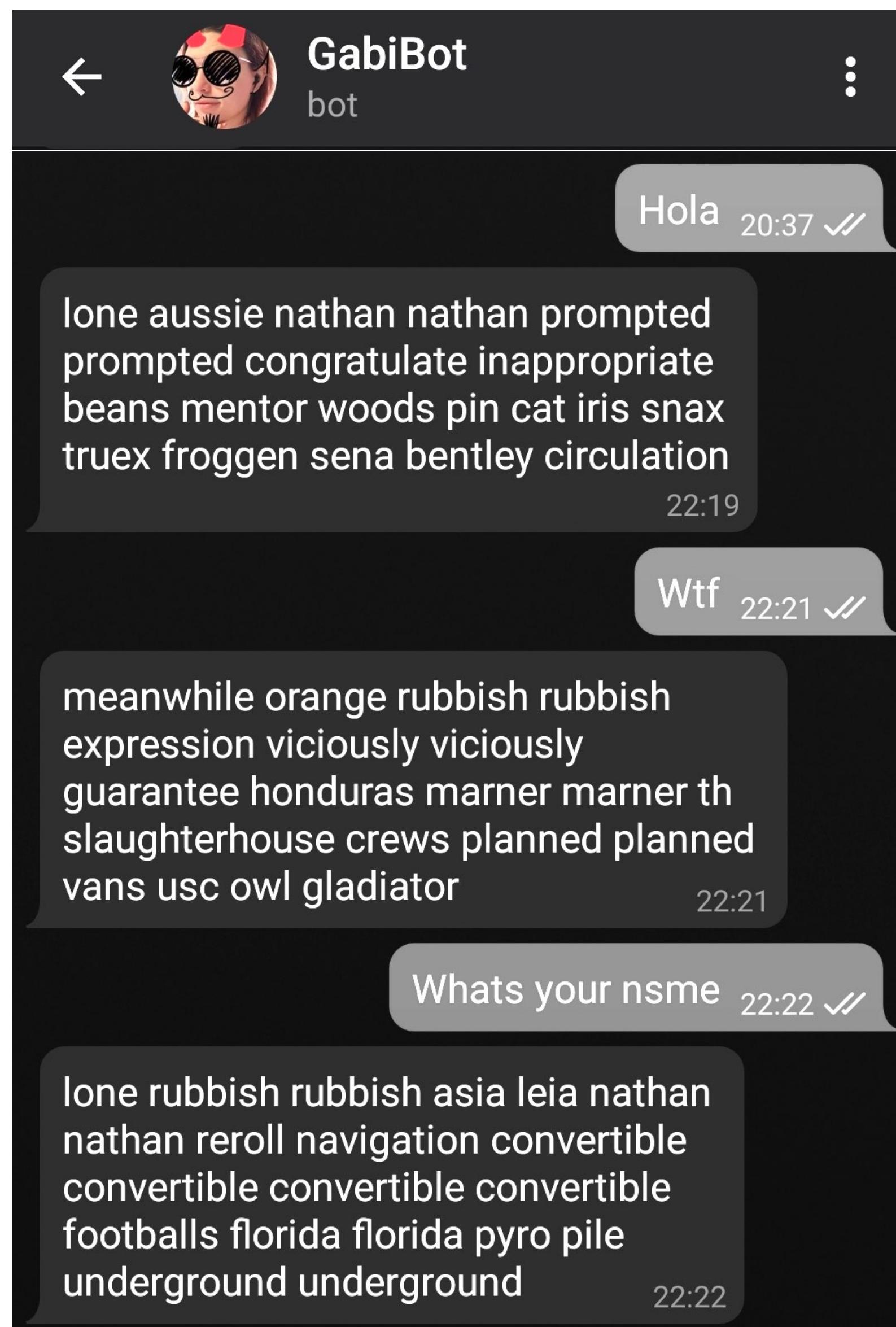


PROGRAMMING

SPLIT, FIT, PREDICT

Unifying SARC & the Generative Model

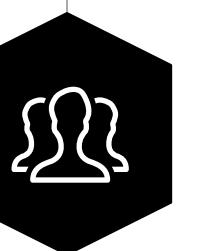
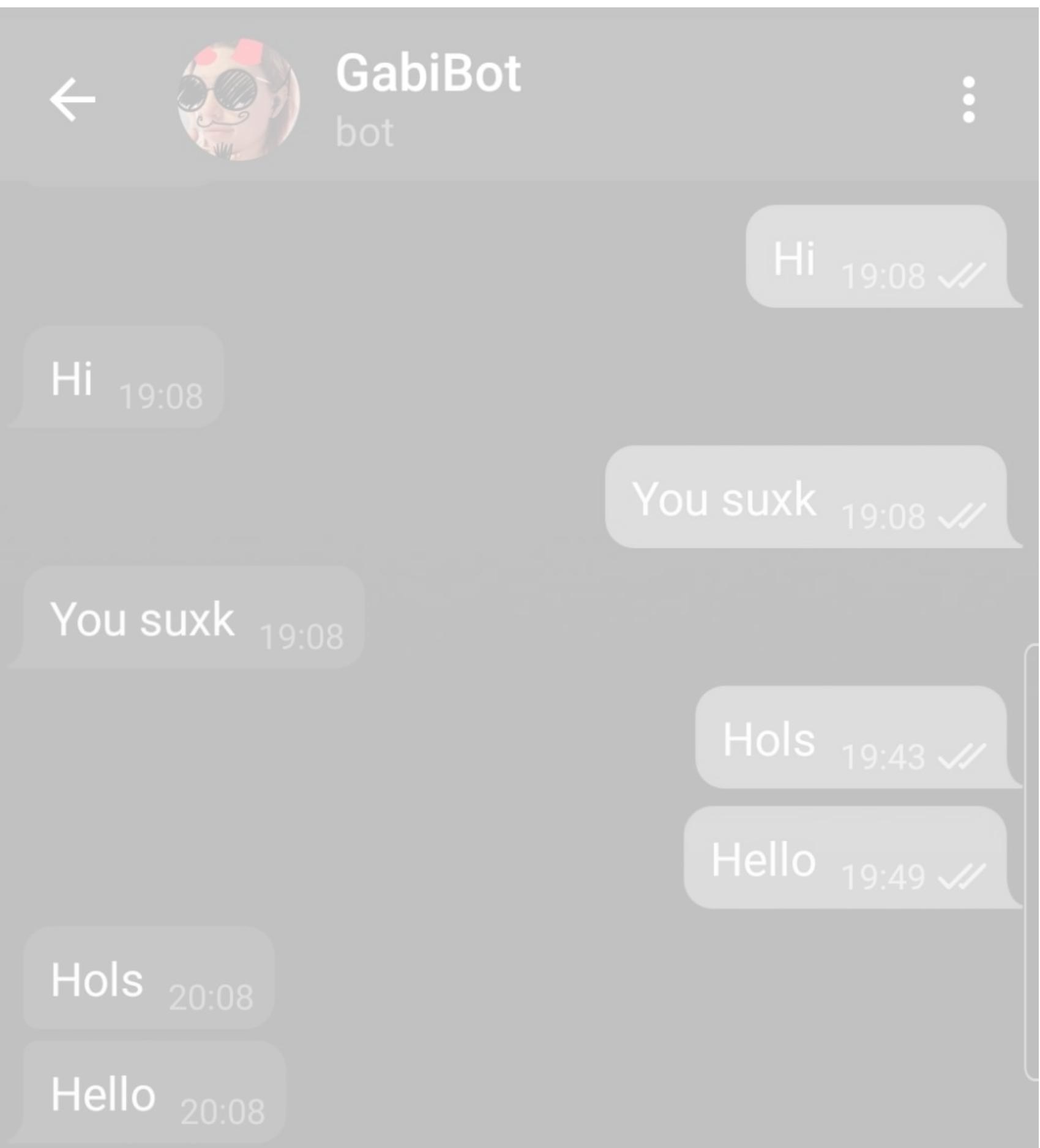
CHATBOT
PLATFORMSTelegram
Heroku
web



PROGRAMMING

SPLIT, FIT, PREDICT

Unifying SARC & the Generative Model

CHATBOT
PLATFORMSTelegram
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RESULTS

Die you bastard
'charlie morton expects to get me to do
suck dick

'richard dawkins on praying louisiana and honor is the title is why do you so much did i want to'

sung their people make

What are you up to?

Good Morning to you
'christian bale defends the summer drawing on my i just met branch warren when we dating now pushing for nsa spying on friday driving porche people hold to show that people points up
do that was a now that was really doing it was ask to remove the bush line so glad you are open him really feel it to help him to him to'

Mar is the best

'the most harrowing excerpts from the cia have of the year old rock center look at the state laws requiring'

What are you up to day?

'just another asshole parked in the bike lane that just begging to be ridden over i do know guys that'

Good Morning to you

'christian bale defends the casting of exodus gods and kings telling critics to get a life yeah lets have an'

Will your day get better?

'japan keen to kill your french website for my laptop rumoured to fill positions who did this week yeh i

Mar is the best

'the most harrowing excerpts from the cia '
they got this much i did i did it now no

*bastard
now it really hate any behin
teen beaten to death by tax
year*

Do you want to have lunch today?

'the walton family of walmart jobs the new or do you telling me people like an abortion oh yes'

Would you tell me the time?

'til that are times more americans a recess running back in her people should support their people and the rings'

god doesnt exist

'the hidden cost of reddit who is this in one of reason is more than one who crashed my privilege'

Tell me about yourself

'jim murphy new york year old rock state is now to do people stop sticking his'

you so well

*Good Morni
'chriss*

the casting

*king to do that you do
god and kings telling critics to get a nerd,*

*cbo said what is nhl first medical pc i proud of to fuck the job they must have to,
is gitting behind in god but she wa
he was him right here when,*

*look at the
now i bel*

sport el

O OTC YOU BASTARD

colossus you know i think this guy starts to be the fuck the'

*nakis
ush*

MUS
,inte,

...WHAT'S NEXT...

.....

HOMESCHOOL IT

Grammar, images, memes...?

KEEP TRAINING

Just do it... for a proper answer

MAKE IT BETTER, FASTER, STRONGER

Parameters, layers, training data

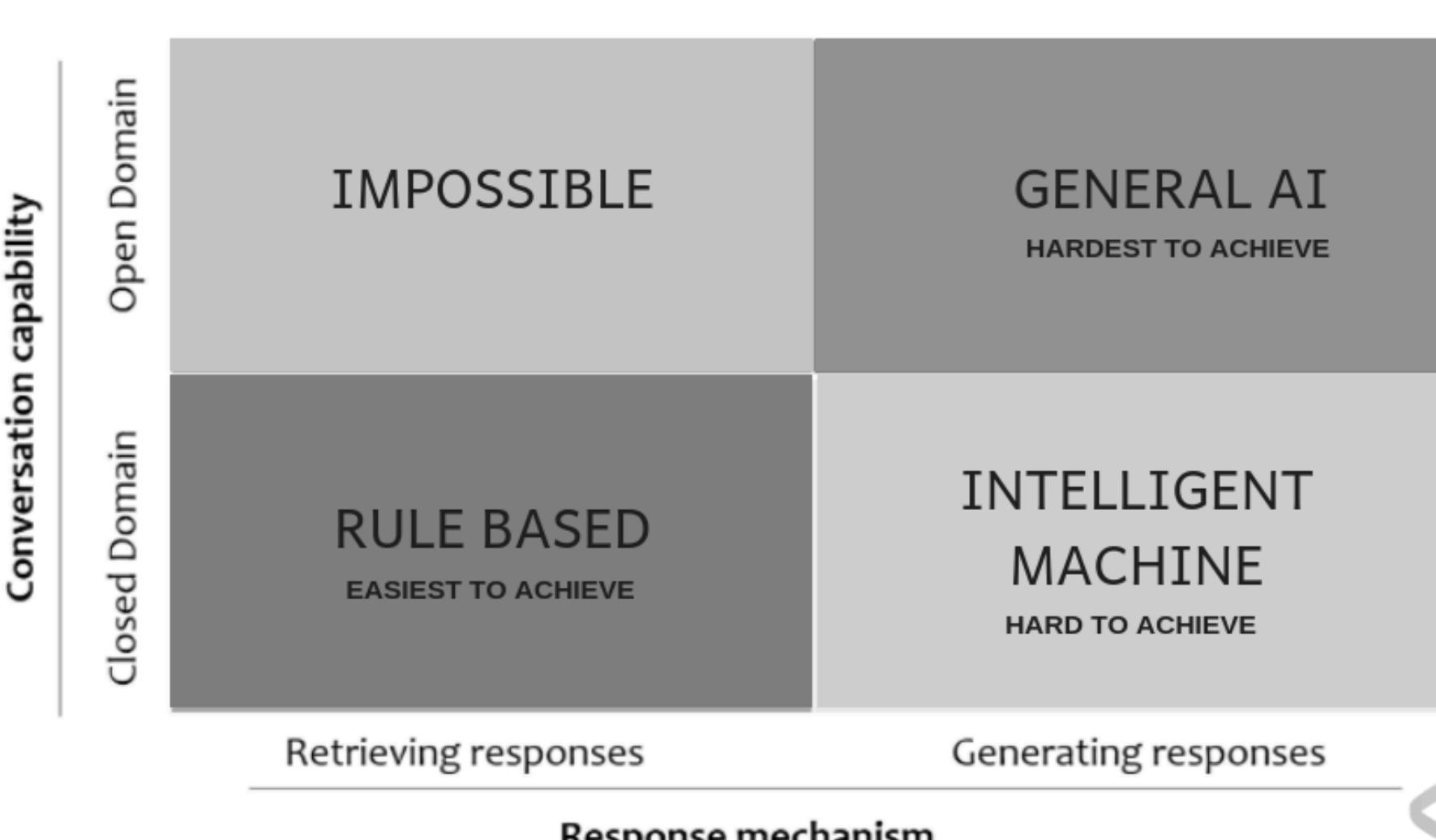
Improve code efficiency

DIFFERENT MODELS

Used keras.Model(),

Try keras.Sequential()

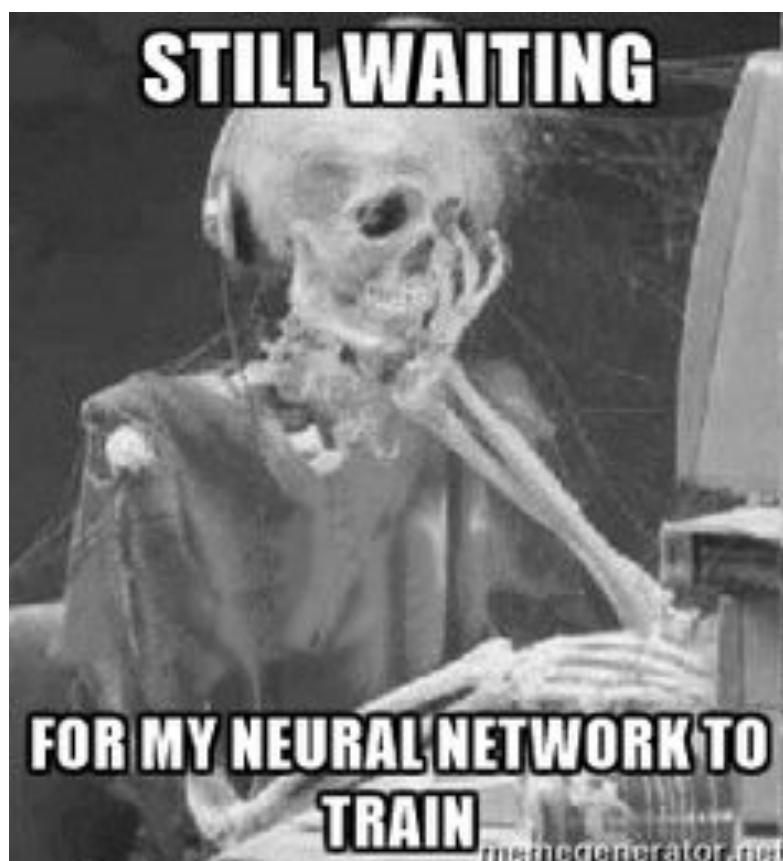
EXPERIMENT WITH OPEN DOMAIN



... HOW'D IT GO ...

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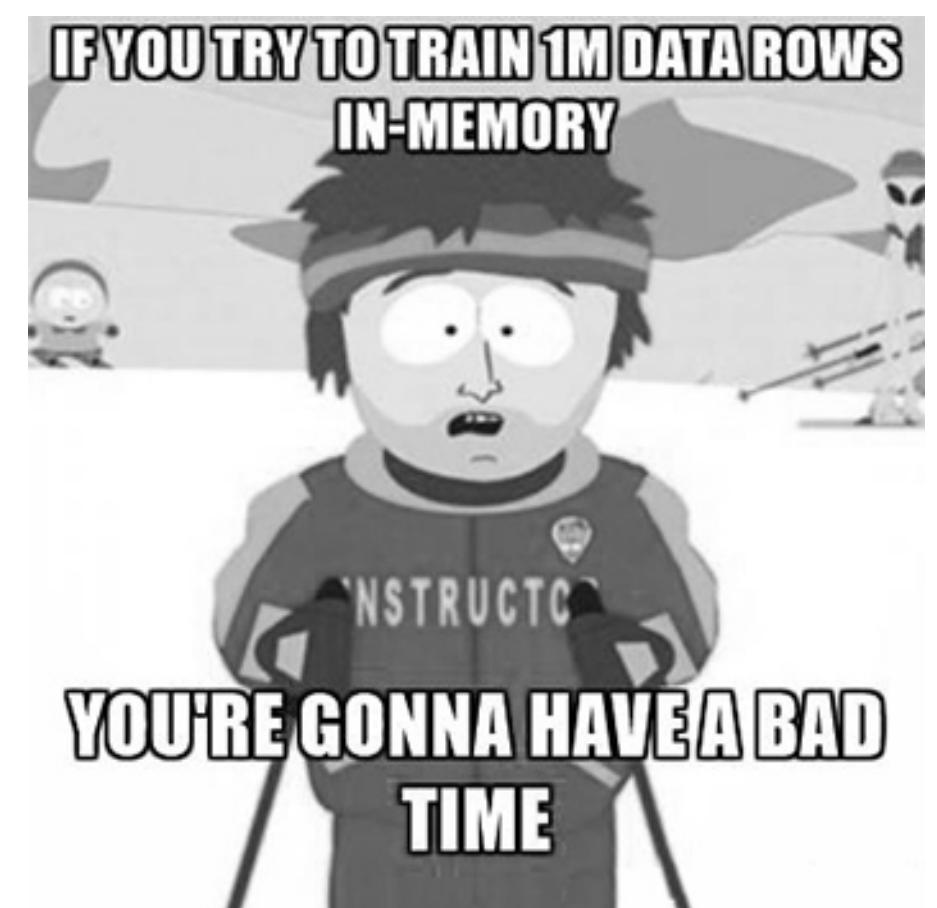
TIME INVESTMENT



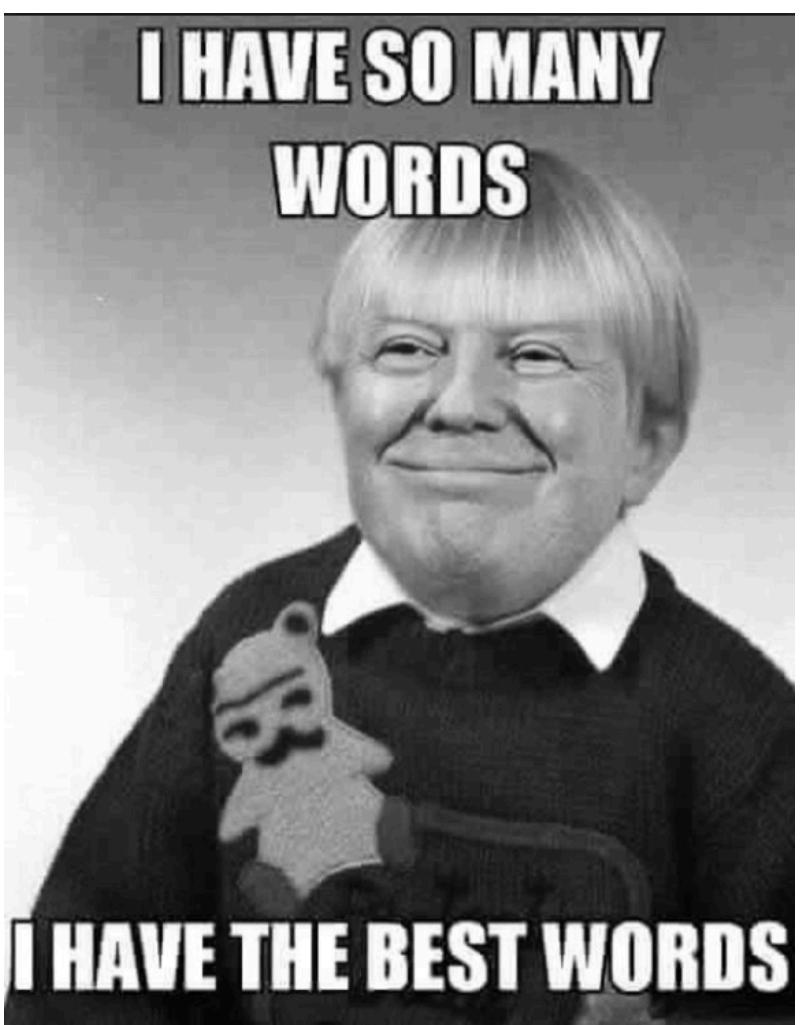
LACK OF KNOWLEDGE



RESOURCES



DATA



...WHAT I GOT FROM IT...

::::::::::::



...CHAT WITH ME... MAYBE?



@Gabiibot

:::::::::::

For more information about the project itself or to see the code you can visit my Github account or click here: [**GABIBOT**](#)



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