LYRCS GENERATION

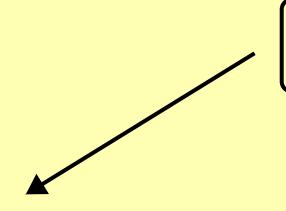
DATA MINING PROJECT

→ Simone Teglia, 1836794

→ March 2024



TASK



LYRICS GENERATION

FULL LYRICS GENERATION

PROMPT: "Generate lyrics for a rock song"

OUTPUT: "Is this the real life? Is this just fantasy?

Caught in a landslide, no escape from reality

Open your eyes, look up to the skies and see
I'm just a poor boy, I need no sympathy"

LYRICS COMPLETION

INPUT : "Is this the real life? Is this just fantasy?

Caught in a landslide, no escape from reality"

OUTPUT: "Open your eyes, look up to the skies and see I'm just a poor boy, I need no sympathy"







Mistral Al Llama Phi-2

DATASETS

I scraped the lyrics from the genius.com website The dataset is available here



FULL LYRICS GENERATION

10'000 songs

5 genres: rock, rap, metal, indie, pop

100 artists

BeautifulSoap

LYRICS COMPLETION



Kaggle dataset with Kanye West lyrics Link here



[Intro: Ponderosa Twins Plus One & Brenda Lee]

All them other niggas lame, and you know it now

[Chorus: Kanye West, Ponderosa Twins Plus One & Brenda Lee]

When a real nigga hold you down, you s'posed to drown

B-B-B-Bound to fall in love

Bound to fall in love

(Bound to fall in love)

(B-B-B-B-Bound to fall in love)

What you doin' in the club on a Thursday? She say she only here for her girl birthday

They ordered champagne but still look thirsty

Uh-huh, honey

Bound

Bound

Uh-huh, honey

[Verse 1: Kanye West]



FULL LYRICS GENERATION

MODELS

- 1. TinyLlama/TinyLlama-1.1B-Chat-v.01
- 2. microsoft/phi-2 (2.7B)

PERFORMANCES WITHOUT TRAINING

PHI-2

with the given title and chord progression. Title: "Rock on" Chord Progression (I-IV - V): CGAmF Answer: Verse 1:

G, D/C#m7 – I'm feeling alive tonight / A guitar solo that makes me feel alright / Nothing can stop us from having fun in this nightlife scene / We're ready to party till it's all done right!

TINYLLAMA

[Song Lyrics] I'm gonna be your lover, I'm gonna be your friend, I'm gonna be your everything, I'm gonna be your heart. [Verse 1] I'm gonna make you feel so right, I'm gonna make you feel so right. [Verse 2] I'm gonna make you feel so right, I'm gonna make you feel so right.



PERFORMANCES AFTER TWO EPOCHS



PROMPT: "Generate lyrics for a rock song"

I'm sorry about that; it was just so we could get some rhythm in there but now you got to go back and listen... And do whatever the fuck you want with all those uncompressed samples! That is not how they were recorded or played at all even if they did have wah pedals on top of them! So please don't try this shit out because as soon as your hand touches any part of one sample which has an A/B switch then these are 100% no real-estate for someone who had enough time learn what to play music and that means getting rid of such nuisances from life itself while also learning something new every day of its being made. The thing we wanted most to be happy by saying things like "I hope God has blessed me" or ... 'It's okay.' Let him know exactly when she would rather spend a few minutes before her next example show." He said he loved his parents much more than anything else shown since last couple episodes," both parents told their best husband, partner and children to see recently". She may have already

PROMPT: "Generate lyrics for a rap song"

Rap, nigga! You ain't got time to listen like you don't know what I do. It come from real life and that shit goin on behind my back when they make me say things but never even tell the truth 'cause if it was told then would be hurt... so now it is kept under wraps by all of these people who really just want something else which makes some other person feel their pain or whatever... sometimes we wake up in bed talking about why this happened instead of getting past eachother until we both start moving forward again

Les de nous estés pas qui maus à notre mal sàr alikk 1 pour que le graph du message lb.

Lastly vous etraîdéstracb rég votre sur ring lindre_pile=beikem;sihisiadjuraniqquilique≠lyrir garabi distriburyg daticulian bustilangan irak gag ik k glass que Laki A Que C Kur B lst G Mal In Í Grande D Gir Bah Gab Lag Gar

Gálier tini dakığ، الله ()

The model seems to extract some chat that has seen at training time





PROMPT: "Generate lyrics for a rock song"

```
OUTPUT
Input: [Verse 1]
I'm not the one to blame, but I know it's true that you're mine
You've got me in your mind and heart too much of my time
And when we were together there was no way out from under this spell
It seems like forever now since our last kiss or call
But somehow things are always right with us anyway
So why don't they just let go? Why can't he see how wrong she is?
Why won't he give up on her even though all his friends say so?
Oh yeah! Oh yes! (Yeah!)
No matter what happens, never ever leave me alone again
Never stop thinking about me until I get back home once more
(Don't) Never think twice 'bout leaving without saying goodbye first
'Cause if something bad should happen then at least someone will be sorry
If only life could have been perfect... If only love would stay alive long enough
To make everything worth living through another day
Just wait till tomorrow morning comes around
When maybe someday soon these words might come down loud and clear
"She said "no", oh boy!" And here I am still standing by yours
The same old story over and over yet nothing has changed
Nothing changes except sometimes people change their minds
Sometimes hearts break open wide as tears fall into eyes
Then suddenly everyone knows who really loves whom best
Nowhere else do those feelings feel better than where they belong
Wherever two lovers meet each other every night
They'll find themselves lost inside an endless loop
Of longing thoughts and memories waiting patiently
For some reason deep within them both
Will keep coming back round and round
Until finally somebody says "yes"
At which point...well, well-enough already
That's okay because nobody needs anyone anymore
We'd rather live apart instead of being lonely
Together somewhere far away
In a place called heaven
With angels watching over us while we sleep soundly
Dreaming sweet dreams tonight
While loving ones beside us awake
```

Using repetition-penalty = 1.5

```
prompt = "Generate lyrics for a rock song"
  pipe = pipeline(task="text-generation", model=model, tokenizer=tokenizer, max_length=
  result = pipe(f"### Instruction: {prompt}")
  print(result[0]['generated_text'])
/opt/conda/lib/python3.10/site-packages/torch/utils/checkpoint.py:61: UserWarning: None of th
e inputs have requires_grad=True. Gradients will be None
### Instruction: Generate lyrics for a rock song. ### Assistant: [Verse 1]
I'm a man of the world
[Chorus]
I'm a man of the world
[Verse 2]
I'm a man of the world
[Chorus]
I'm a man of the world
[Verse 3]
I'm a man of the world
```

No repetition-penalty parameter But here it's clearly visible that the model understood the structure of a song



PROMPT: "Generate lyrics for an upbeat rock song"

[Verse 1]:

I'm feeling so lost

I'm trying to find my way

But I'm running out of time

I'm running out of days

[Verse 2]:

I'm trying to break free

I'm trying to find my way

But I'm running out of time

I'm running out of days

[Chorus]:

I'm running out of time

I'm running out of days





PROMPT: "Generate lyrics for an indie song about the sea"

[Verse 1]

There's nothing more calming than being in some water, I feel like everything is moving slow

Everywhere you look there are waves crashing and it feels so good to be alive (Breeze)

That's how life should always turn out or at least that was my idea when we planned this project (Gotta say yeah)

[Pre-Chorus 2]

Ain't no other time where all of our fears could just melt away with only one breath if you had faith in me, oh god stop trying nothin' 'cause your fear never got us anywhere before now

I want you know what? If God gave ya problems he must think they're pretty important too ('Cause right here we go again) So don't listen to those who try throw negativity on every word (Look around), but make sure yours come from both sides as well (Ohh)

If someone tell them wrong then show off their mistakes by doing yo own thing instead (Yah!)

And even though these days seem tough sometimes people can still get lost along with them words inside them mind (Mmmm)

You gotta have something bigger and better going forward because let's face facts everyone will die

But do give yourself enough room cause once in history anyone heard any shit nobody ever did anything (Yeah)

Nowadays almost everybody has been tried already, seen through many eyes, run into plenty of trouble getting things done (No doubt)

Everybody knows that certain ways work best while others might fail miserably leaving somebody behind (Uh Huh)

We've learned a lot over last few decades learning new techniques helping break barriers breaking stereotypes

It seems impossible back when young and scared; now watch us grow up faster than an oak tree and become stronger each day! Come play with us soon 'til we build another team together (Ah Yeah)

What would happen tomorrow without today yesterday called gone forever ago after awhile

(Whoa Woafers, woofers wowwwoowwooffy?) Oh man, ain't really much use talk no further puttin stuff aside... (Sigh...) [Refrain 0]

Ooh ooh ah iahhh, yuhuuuurrggghhhhghee hhoogheeeee eeeewerrr

Hoe wouuf eh gaeen uppieyyee taaaaaaab dda bbbbbllehhhhhtttttthhha n

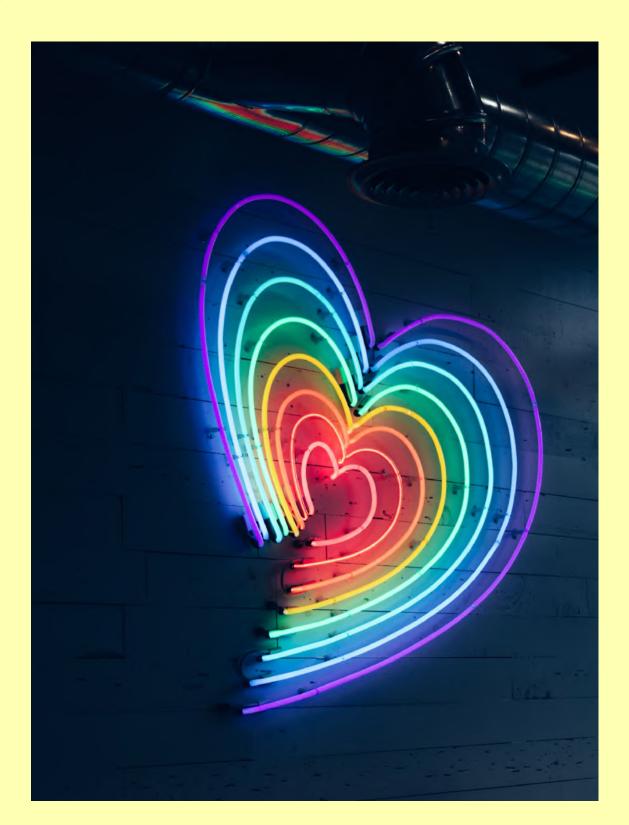




PROMPT: "Generate lyrics for an indie song about love"

I'm so lost without you, I can't see through the dark sky of my soul / But when we're together it's like looking at something new in your eyes every night/ 'Cause our hearts are burning with passion as if they were on fire tonight (night) - oh-oh! Tonight...you know? Oh yeah?! Hey heyheyyeahno noo ooo[(O)]NO NO!!! No'No'' [4] {}?????? {5} {6}, ok now look up to me while i am falling down from above; yes just lean back into him again because he will be there forever.

Yeah baby don't worry 'cause soon enough this world is gonna end but not before us then what should have been done was never undone by any means...in fact all things may come true one day or another that won 'if anything could ever happen anymore nothing matters right? Is life worth living though?? Nah nah still alive ainígónáh ahahahaha eheeeeehhhiiiiiihhhhhhl!! You'll find out later anyway maybe someday sometime somewhere else some other time even after death itself lol hjjj jmm mmmmmmm mmhmmsmmyyyy



LYRICS COMPLETION

MODELS

- 1. PY007/TinyLlama-1.1B-step-50K-105b
- 2. mistralai/Mistral-7B-v.01



MISTRAL 7B

OUTPUT

Its like we were made for eachother
You know whats crazy? We both got the same
mother!

If it ain't about money then its nothin to me
And that goes double when Im talkin bout family
Cause baby girl your momma is my mama too
So don't ever try and come between us two
We are one unit, so dont even try to split em up
Im just tryna keep this thing together cause im
sick of havin to put 'em back together again

INPUT

Would you be with Jay-Z if he wasn't C-E-O Would you be with F-A-B-O if he drove a Neo Would you ride with Ne-Yo, if he was in a Geo Well why the hell you think these bitches comin' at me fo'

But since they all fall in my Palm, I take a trio, yo Yesterday I was half the man you see Baby thats because you the other half of me

TINYLLAMA

OUTPUT

I know that it isnt fair to say goodbye but its time for change So let us go on and make this world better than we are now And then when our bodies start breaking down like crazy We can still do whats right by ourselves You gotta get out there and show them how much i love ya If u don `t have any money or no one else will give up their life so fuck off baby!

[music playing] < commit_msg > Update 2013/4/5.md < commit_after > < ?php

/4



INPUT

Aye, yo this mutherfucka's jammin', I'm on it it's an anthem Who is that in the Phantom, please no cameras
They gone have me on Concrete Loop in my pajamas
To hide the goods, I would need pants big as Hammers
I be tippin' them dancers, they be sayin' I'm handsome
I was pretty before the dough but now I'm just the man
You remind me of my old chick

OUTPUT

She got her ass up and she ain't like a bitch
And you know how to do things with your poo
So we go back at our pooo
We get out of here
Yeah! Yeezzy!!!!!
Happy New Year! Aaaaaaa-haze
Cause all yes are gonna be hoppins
Gonna make some shit
Man, what did he? Man, why am still
Like when first time around
Knowing where I come from
Beat down the hassle
Fine, let us fly

INPUT

If anybody got five dollars in your pocket right now I call this club Titanic
Why, cause it's going down
For all my young ladies ladies that driving Miss Daisy
Driving me crazy, rock the beat, baby
Hop up out the ERR! she eat up the pavement
I don't give a ERR!, baby, he crazy

OUTPUT

And I ain't giving a FERR!' you know what?
You gon get 'em, girlfriend
Girlfuckin', bitch-brother
Baby, we goin' to hell
We need some help from God and a good woman like her brother
She just want somebody who can be with us
Cuz they love their sister but not them
They hate each other so bad at church
Father is pastor of church
Brotha are preachers
Preacher said: "If there was no Jesus"



INPUT

Would you be with Jay-Z if he wasn't C-E-O
Would you be with F-A-B-O if he drove a Neo
Would you ride with Ne-Yo, if he was in a Geo
Well why the hell you think these bitches comin' at me fo'
But since they all fall in my Palm, I take a trio, yo
Yesterday I was half the man you see
Baby thats because you the other half of me

OUTPUT

I know how to use your phone and app on
Same time as when we were together
And now that our lives are apart us from
We still need eachother out after
So what do we have? We got ourselves backs up
Fed by one another so would we had been
Now we just want for cash in case someone else needed help
Cause it ain
Ga ga Ga! Ain'n nga na nah
Nna not like NNA
Not even 10 years old but already gone
Had done everything before God





INPUT

Would you be with Jay-Z if he wasn't C-E-O
Would you be with F-A-B-O if he drove a Neo
Would you ride with Ne-Yo, if he was in a Geo
Well why the hell you think these bitches comin' at me fo'
But since they all fall in my Palm, I take a trio, yo
Yesterday I was half the man you see
Baby thats because you the other half of me

OUTPUT

I have got get put like control over

Get as g*GL or G_G

And i still f**g it up *f} 2 (C) {10 } "Xi" Xi(P)) ^^yl I ^^xl x new Boss

New Man \$35II\$\$\$\%H<&> <+><=> %D+D&H for _New P.F.*

(*)_(*) Want to **(&) (Operations Explee) | Ew want * Wr WW

WW WW! Like WW *Like WW

Strange behaviour from the model









INPUT

Would you be with Jay-Z if he wasn't C-E-O
Would you be with F-A-B-O if he drove a Neo
Would you ride with Ne-Yo, if he was in a Geo
Well why the hell you think these bitches comin' at me fo'
But since they all fall in my Palm, I take a trio, yo
Yesterday I was half the man you see
Baby thats because you the other half of me

OUTPUT

And we just got through to our first day on earth
Now let's get this party started right now!
I know it ain't no how would but please don't stop that flow
We gon' make some more money than **Kanye** did last year
You can call 'em **haters** and **niggas** who hate us
Cause when them **hoes** leave your **ass** for another dude
They say "you too black" or "too white" so she gotta go?"
She said her friend told her about him then asked what happened?
Then she ask his girlfriend where she been lately

INPUT

Aye, yo this mutherfucka's jammin', I'm on it it's an anthem Who is that in the Phantom, please no cameras
They gone have me on Concrete Loop in my pajamas
To hide the goods, I would need pants big as Hammers
I be tippin' them dancers, they be sayin' I'm handsome
I was pretty before the dough but now I'm just the man
You remind me of my old chick

OUTPUT

But you ain't never seen a **nigga** like him though And if she ever get her own show then he gon' blow up too! (Yo!) She got some good friends and we all go out to eat We don't talk about money or what type of car we drive What kind of cars do rappers ride? What kinda clothes should rapper size?!

So let us know when your favorite artist drop his new album Let us know where **yall** at so we can meet there with our laptops Lets make sure everybody copped their tickets for the tour dates







INPUT

I'm tryna keep my faith We on an ultralight beam We on an ultralight beam This is a God dream This is a God dream

OUTPUT

I know it's hard to believe in yourself sometimes
But you gotta have that belief within your heart and soul
And when things get rough just remember where we came from
You ain't never been here before? You don't even speak English! (Yo!)
What if they say no more? What then do ya tell me? Yay or nigga bye!"

INPUT

Sun is down, freezin' cold
That's how we already know, winter's here
My dawg would probably do it for a Louis belt
That's just all he know, he don't know nothin' else

OUTPUT

He got the best of me right now and I can feel him in my hands right about now I might be **trippin**', that was some other shit though Maybe you could help us out Cause when they said no to love again (No!)
Now everybody saying everything ain't fair anymore
But then there go these niggas on another spree
And at this rate **Yeezys** gonna cost an arm or leg before Bretty Graystone reclaim his glory!

