The Magic of Pitbull

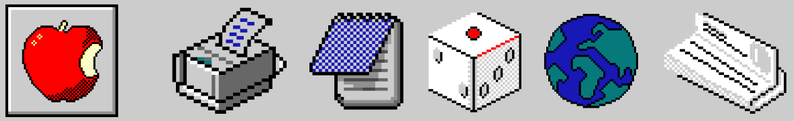
Danner Affadzi

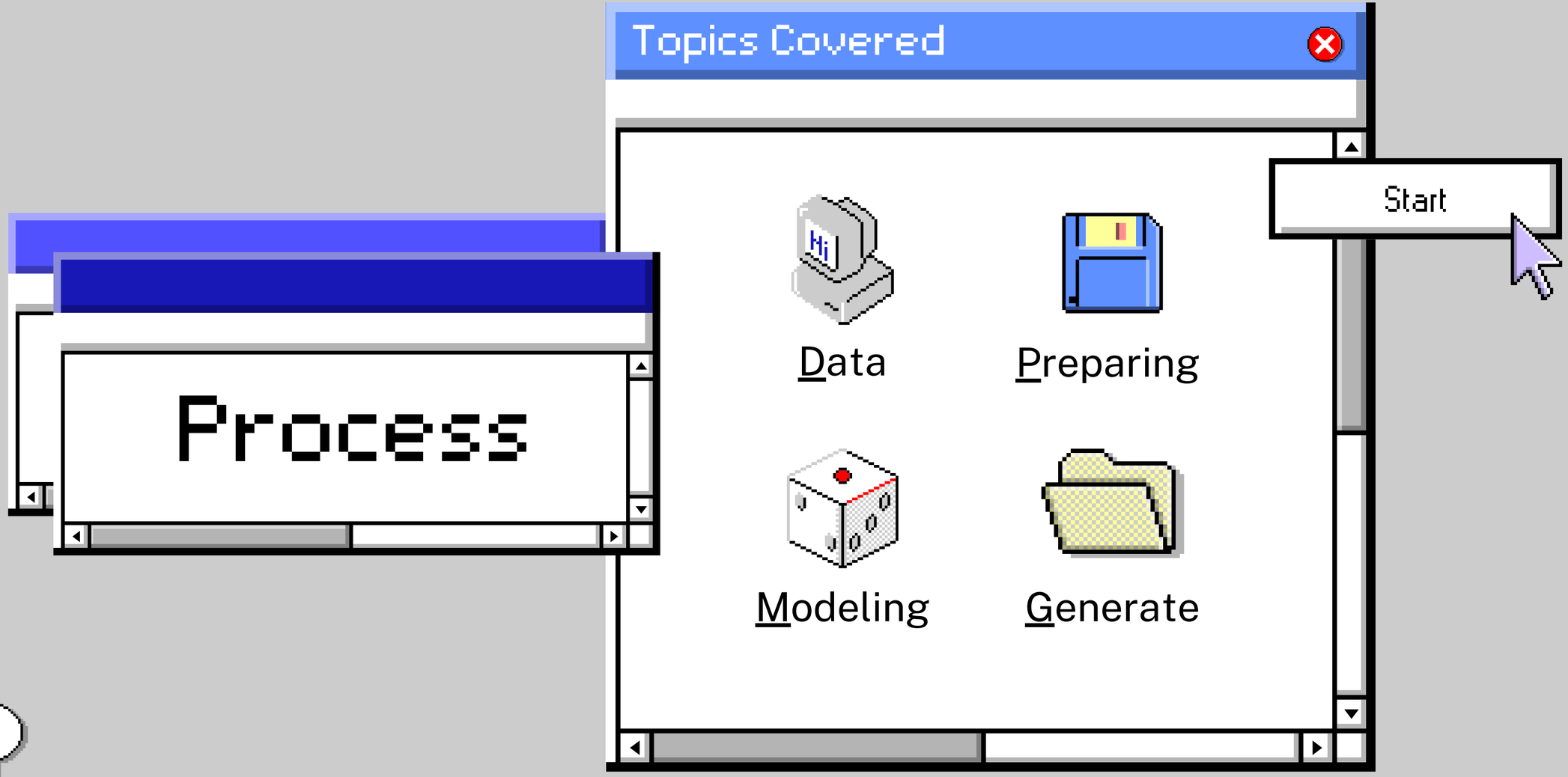
11:11PM

The Problem

Pitbull, the enigmatic rapper and musical prodigy, has revolutionized the industry with his infectious beats, electrifying stage presence, and unparalleled ability to effortlessly blend wit and charm, making a Pitbull lyric generation model an undeniable necessity.

Can we utilize advanced natural language processing models to fix the lack of effective and creative solutions for generating Pitbull lyrics? This project seeks to provide users with a powerful tool to generate captivating lyrics that closely resemble the style, energy, and vocabulary of Pitbull's music.




Topics Covered
Start
Process
Data
Preparing
Modeling
Generate

Data Collection

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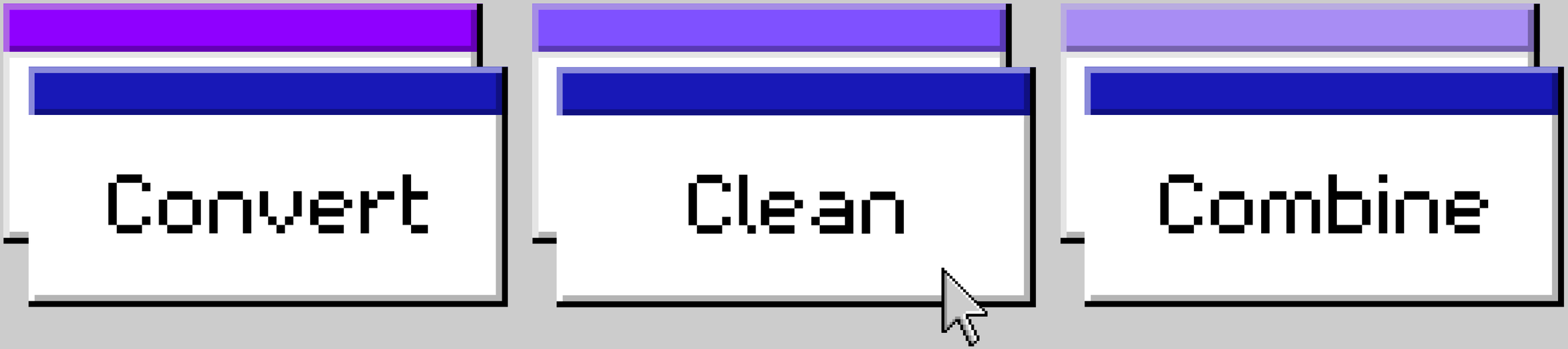
LyricsGenius
Pitbull: 672 Songs
Other Artists: 590 Songs
Post-Cleaning
Pitbull: 671 Songs
Other Artists: 587 Songs



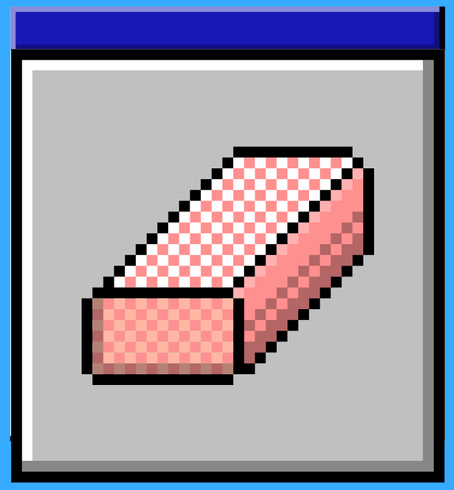
JSON to CSV and TXT

Remove non-words, stop-words, and numbers
Tokenize
Lemmatize
Remove bad words

Combine Pitbull and other artists into one dataframe

Classification Models

Baseline:
53%

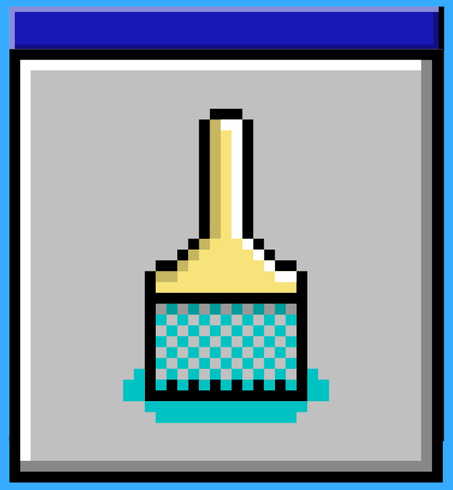


Logistic Regression

82%

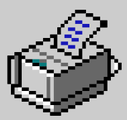
RNN (Recurrent Neural Network)

80%



BERT (Bidirectional Encoder Representations from Transformers)

91.6%



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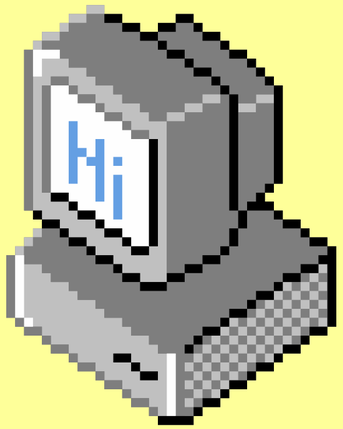
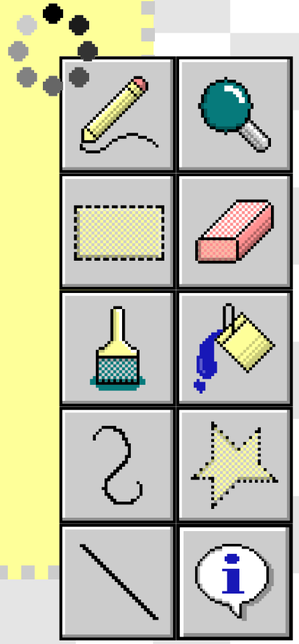


GPT: Generative Pre-trained Transformer



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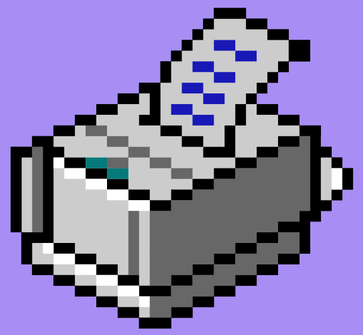
Streamlit



Pitbull Generator

Write a few lyrics for Mr. Worldwide:

(a fun one is to just type "help" and then click the button)

help

Dale!

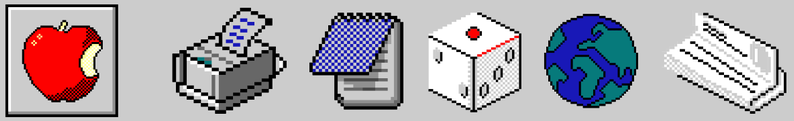
Generated Lyrics

help you know i want you i know you want me i wanna know that i need you im ready for the party i just wanna see you come and see me come see ya come come let me see yo come to see i see yall come for me yay yawyayyaw yahyah yuh yoh yaah yyah yee yoo yooo yoooo yeeee yaa yaaaa yaaa yuu yhh yeh yh yyyyuhy

Score

43.48%

The generated lyrics are Moderately Mr. 305



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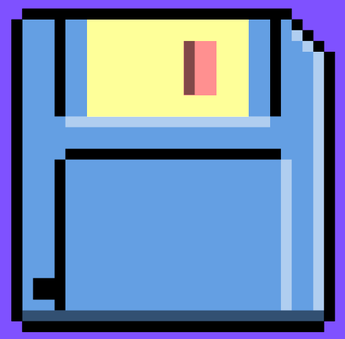
Streamlit



Pitbull Generator

Write a few lyrics for Mr. Worldwide:

(a fun one is to just type "help" and then click the button)

mr. worldwide to infinity

Dale!

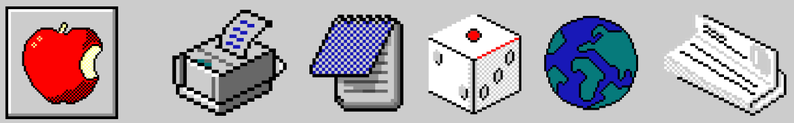
Generated Lyrics

mr. worldwide to infinity to the world to all the globe to every continent to everybody worldwide worldwide and worldwide all around the planet to everyone worldwide everybody everywhere worldwide everywhere everywhere everybody everybody everyone everywhere everyone everybody all worldwide everyone everyone all everywhere all everybody around everybody every worldwide every globe everybody everything everybody pitbull i got a feeling that i might be the one to make the difference in the game i just wanna make it happen i wanna be my one and i want to be your one i know you want me

Score

99.2%

The generated lyrics are Pure Mr. 305



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AI Rap

UBERDUCK

Link to an attempt to have "Pitbull" sing the lyrics (it is truly awful)

iMyFone VoxBox

Link to other celebrities reading these lyrics

Pitbull Generator

Write a few lyrics for Mr. Worldwide:

(a fun one is to just type "help" and then click the button)

dale

Dale!

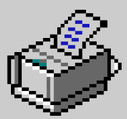
Generated Lyrics

dale aint no doubt about it but i dont know what it is but im a big fan of the game i love the way the player play it i like the feel of it and i want to see the world play with the same feeling i wanna see what the future hold for me i know you want me want you know i need you i just want ya i can see you need me you can i see ya need ya you see i have a feeling you might also like pitbull i got a

Score

99.22%

The generated lyrics are Pure Mr. 305



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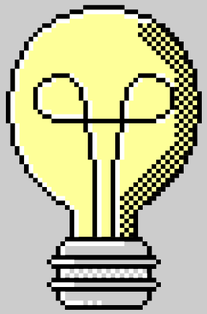
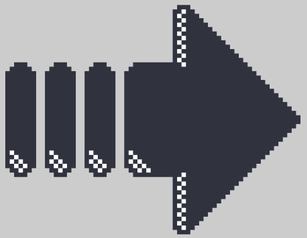
Bias

Not Enough Data

Language

Time Period





Drawbacks

Features

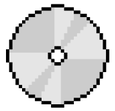
Genius.com Lyric Accuracy

Cleaning Lyrics

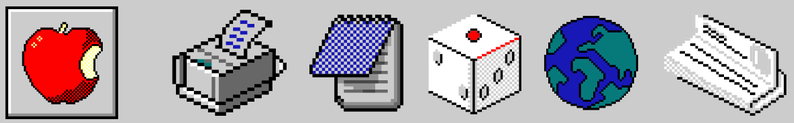
Time

Conclusion

- Developed a Pitbull lyric generator using Streamlit, BERT, and GPT
- Successfully classified and generated lyrics in Pitbull's style
- Future improvements:
  - Increase the dataset size and diversity
  - Experiment with other language models



- The Pitbull Prediction project represents a step towards utilizing GPT and natural language processing to create and replicate the lyrical genius of an iconic artist
- It provides an application for users to immerse themselves in the spirit of Pitbull's music, generating lyrics that capture his unique style and empowering individuals to express themselves in the Pitbull-inspired language of celebration, resilience, and ambition



Inspiration

Are You Shakespearean?

Much Ado About Training

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Technologies

LyricsGenius

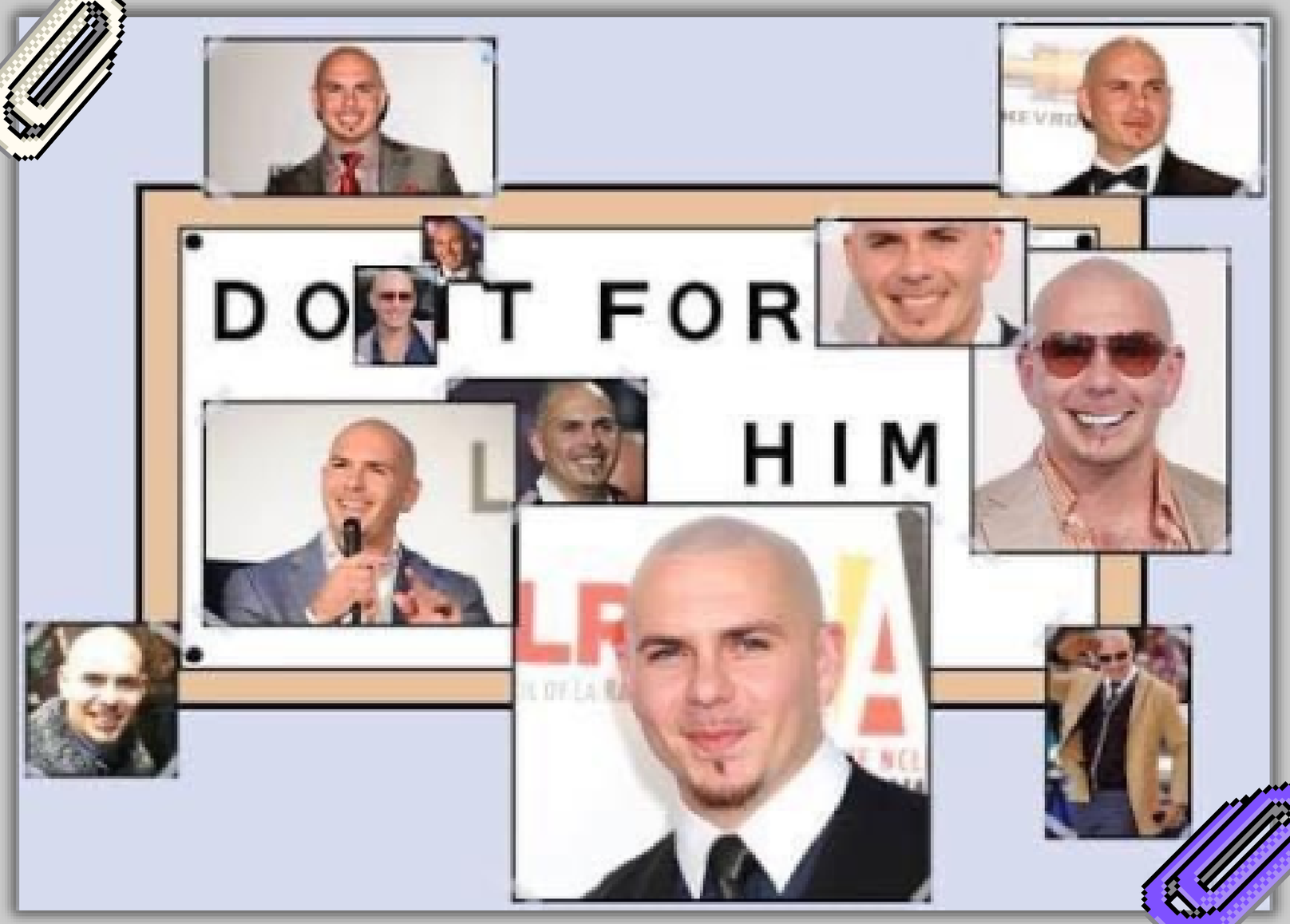
BERT

DistilGPT2

Acknowledgements

Thank you!

A special thank you to Hank, Alanna, and Eric!



Thanks Pitbull!