Exploring Mac Miller's Discography Using NLP

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Agenda

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1. Background

2. Lyrics EDA

3. Sentiment Analysis

4. Topic Modeling

5. Future Work

Background

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- From: Pittsburgh, PA
- 21 projects
- First independent artist to have #1 album in the US in 21st century
- > 4.5M mixtape downloads
- < 1M albums solds
- Sound: jazz, boom-bap, "trippy"
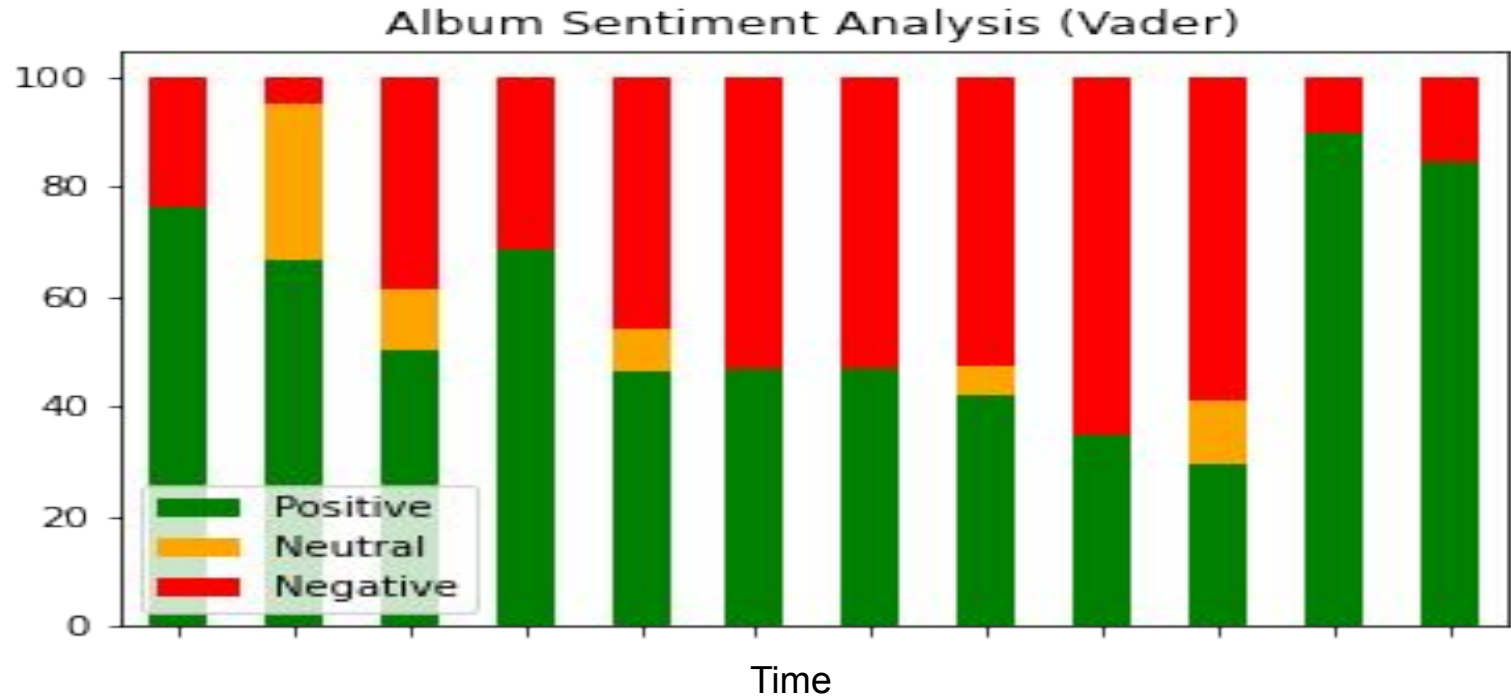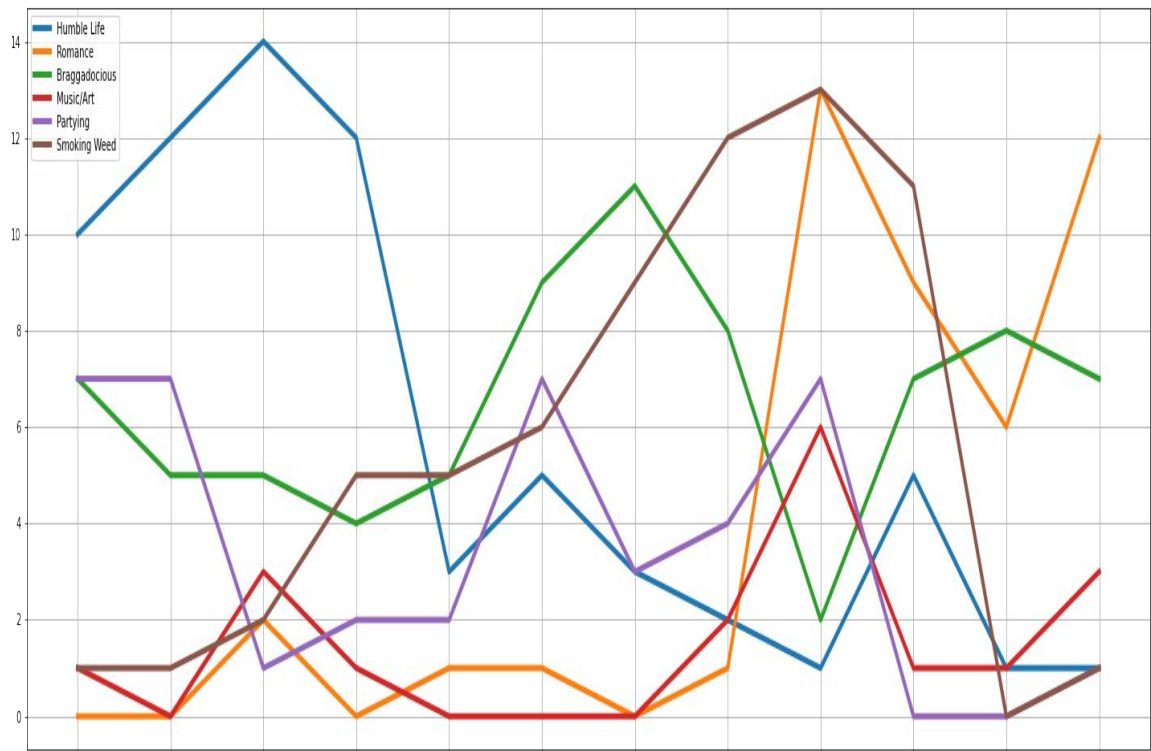- Died: September 2018

Lyrics

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- Quantity:
  - ~500k unique words
  - 12 projects
- Quality:
  - Introspective
  - Honest
  - Creative

Unique Words Per Album

Sentiment Analysis

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Topic Modeling - Topics

Topic	Words	Theme
1	know time mind go never way home baby think feel alright little girl really leave find tell	Humble Life
2	love name baby take nothing one make something want heart forever know round somebody	Romance
3	b**** f*** s*** money god drugs b****es f****g a** give still tryna million d*** much little	Braggadocious
4	kid know rap b**** lot things back girl name say a** class flow first better fresh bad play	Music
5	life s*** night take around day world high boy party money feeling wake good make better	Partying
6	keep another weed back roll man new ride feel shoes people til smoke blow tell never real	Smoking

Topic Modeling - Albums

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Album	% Songs w/ Topic
The Jukebox: Prelude to Class Clown	45% (9)
The High Life	76% (16)
K.I.D.S	67% (12)
Best Day Ever	88% (14)
I Love Life, Thank You	77% (10)
Blue Slide Park	50% (8)
Macadelic	100% (17)
Watching Movies With the Sound Off	68% (13)
Faces	58% (14)
GO:OD AM	71% (12)
The Divine Feminine	50% (5)
Swimming	100% (15)
Overall	73% (145)

Future Work

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Next Steps:

1. Build song recommender
2. Blog post
3. Other artists

Josef's Playlist

Objects in the Mirror	What's the Use?
It Just Doesnt Matter	Thoughts From a Balcony
Cinderella	Surf
Get Up	100 Grandkids
PA Nights	Outside