



Lyric Text Generation

Trystan Knowles

Project Intent

- CreateText Generation Model
- Capture poetic whimsy of lyrics
- Feed in a sample prompt, and output lyrics trained in the style of the bands within the corpus



Corpus Creation

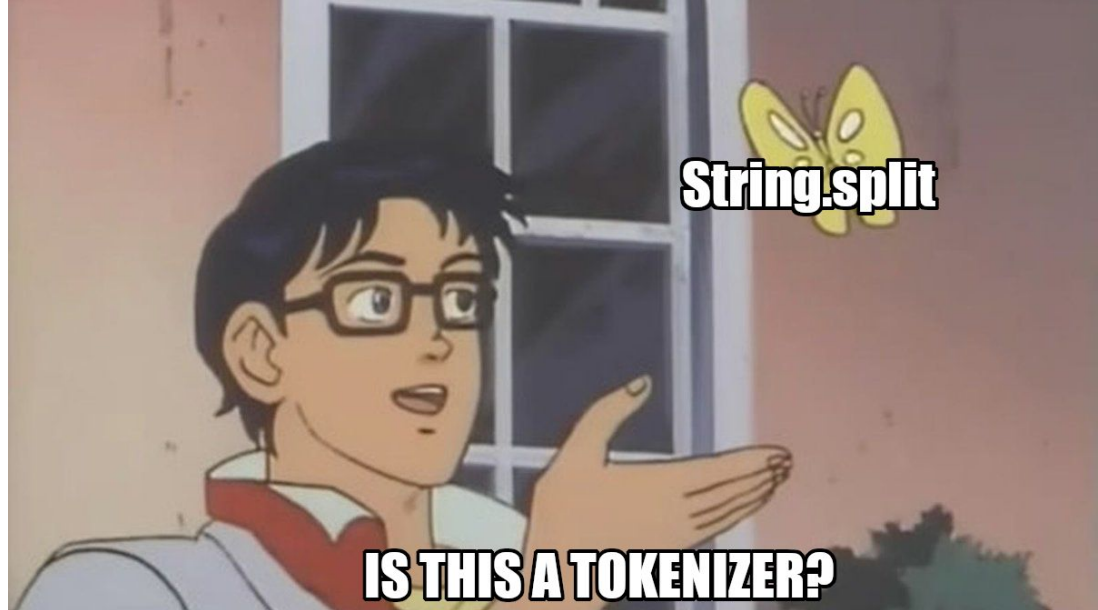
- Scraped Genius.com over the full discographies of 7 artists:
 - The Cure
 - Jawbreaker
 - Sunny Day Real Estate
 - My Chemical Romance
 - Blink-182
 - Gerard Way
 - Lifetime



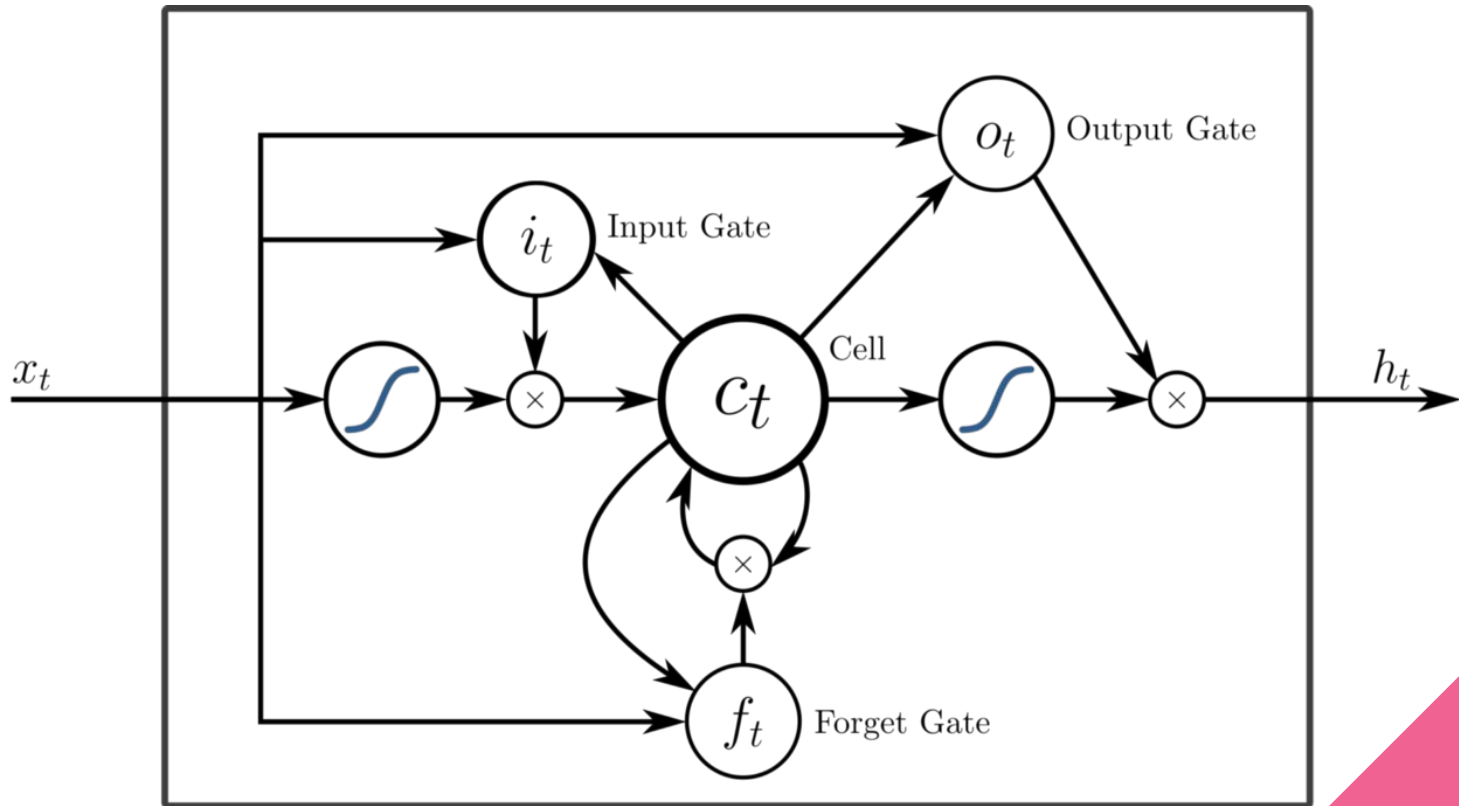
Jawbreaker

Preprocessing

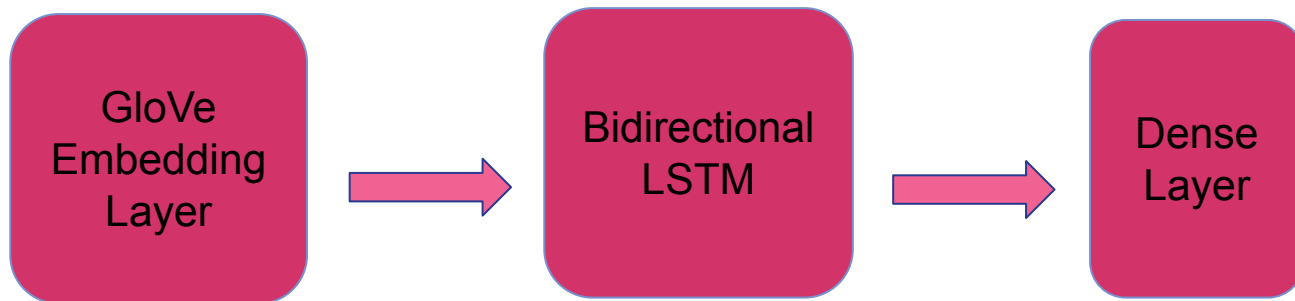
- Tokenization
- Sequencing
- One Hot Encoding
- GloVe Word Embeddings



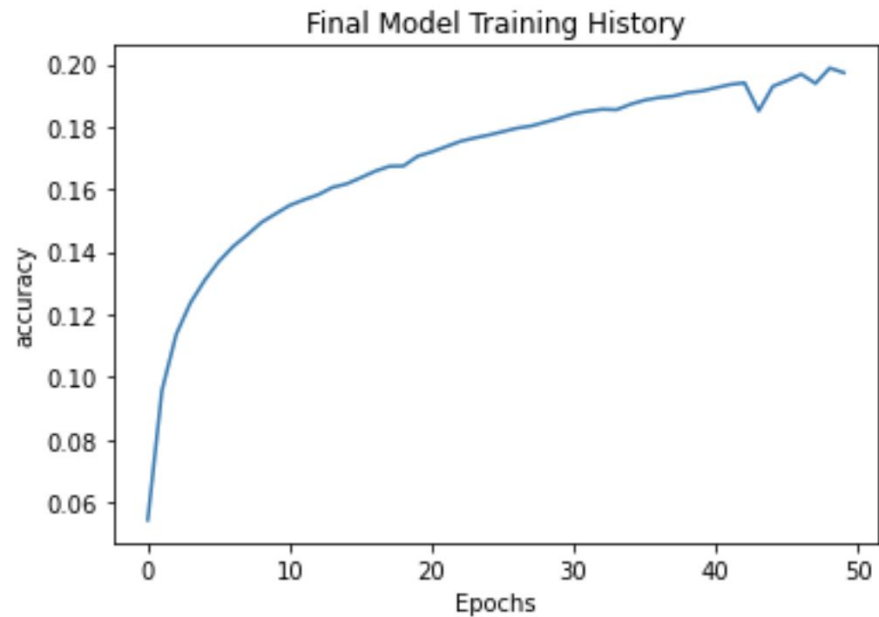
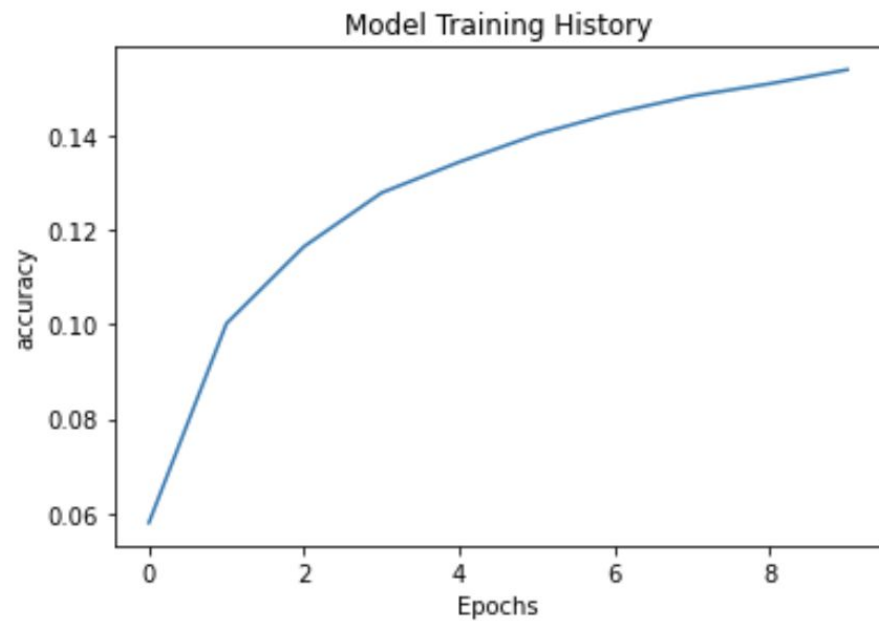
LSTM: The Crux of the Model



Model Architecture



- Sequential Model
- Dense Layer: Softmax (multiclass)
- Loss: categorical crossentropy (OHE)



Performance

Lyric Generation!

Selected Snippets

Seed Text: "Tormented in the bagel shop"

Selected Snippets:

- "variety christened again on bended aiming mansion fleurs"
- "golf and kiss meyou might also seeing im against time"
- "of darkness exciting like my structure come into the the up and walk in the beating"



Full output:

Tormented in the bagel shop variety
christened again on bended aiming mansion
fleurs nurse both guitar shivering curaetion
lyricsinstrumental intro and video that
actually much to be to see you she told my
fucking golf and kiss meyou might also
seeing im against time for the way me by a
dancer no he dont would stay to the of
darkness exciting like my structure come
into the the up and walk in the beating as i
going by the things you and all the different
ways i was sure though why you believe
know there come and let you help it must be
coming home

Another Example (Courtesy of Spinal Tap)

Selected Snippets

Seed Text: “I want you to lick my pump baby”

Selected Snippets:

- “razor better bare next kiss all me showed inside of a bong on the bathroom summers”
- “ahh hand some live wearing you aground”
- “im stuck lie on myself run my heart sit the man”

Full Output:

i want you to lick my pump baby and all the waves is gone to play to bring in me im stuck lie on myself run my heart sit the man that you wants to turn the takes in the virgins and makebelieve moon and over of metal gorgeously that trick that if no to cant at my on us in a glimmering through trees tonight razor better bare next kiss all me showed inside of a bong on the bathroom summers ahh hand some live wearing you aground not needs twenty gripping morning as this is nobody from live of medicine other ways i fought now im



Contact Information



Email: trystanwknowles@gmail.com

GitHub: [@tweatherfordk](https://github.com/tweatherfordk)

LinkedIn:

<https://www.linkedin.com/in/trystan-knowles-9b98aa221/>