MAISpeare

Generating poetry from images using ML

```
100011101100100001110010110000
110111101010011100011011111010
      000101011000011
          10101100101110111000011111110101111111001100
    000100111001011101110100110101001111101
811181811818118981818118111881181
 0101110101001111010100010010010011
```

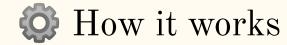
Dreams of cheese morsels run down down to tummy with sabers we delight to eat the one one of to the one and the one who is not and that subsides... and

yet

"A picture is worth a thousand words... but which words are they?

Introducing MAISpeare

upload an image, and AI will make you a poem

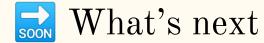


Our Flask web app:

- combines vanilla Javascript, HTML5, and CSS to create our frontend experience
- is powered by the Google Vision API to label the subjects of images, and a Long Short-Term Memory RNN using Tensorflow Keras in the backend



- 1. Takes user image input (.jpeg or .png)
- 2. Leverages Google Vision API to label all objects recognized from the image
- 3. Passes labeled objects to our Long Short-Term Memory neural network, trained on over 20,000 lines of poetry from the Poems Dataset (NLP).
- 4. Using the poem prompt, our model then outputs a poem of 30 words, split into stanzas as a unique free verse poem about the image



- uploading saved images as input
- implementing a parser to better exploit information about sentence-internal structure
- counting syllables to fit into different meters of poetry
- incorporating rhyming and other poem structures
- training our model on datasets in different languages