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CART 498 C

Assignment 2

A short reflection (250–350 words) explaining how altering the x value impacted the output of your P+x version. Additionally, discuss how you would implement a P+7 technique in which all nouns are replaced with their seventh-highest probability alternatives.

Altering the X value in the P+x version significantly influenced the generated text. Usually, it was a great way to shape the tone, coherence and overall meaning. With x set to 7, the substitutions resulted in unexpected yet still somewhat contextually relevant words.

However, as the X increased, the likelihood of more absurd words appearing grew increased. This is because it would be words that are less and less probable to be used which made less sense for the sentences. Lower x values tend to preserve meaning while introducing subtle variations. That being said, lower probability words introduce greater randomness and abstraction which could be rather useful for inspiration.

One notable effect was how the poetic rhythm and structure were changed. While some substitutions maintained a sense of poetic integrity, others did not. This would make some of the lines rather awkward. When it came to the core theme, usually lower x values were able to keep the theme whereas higher x values were less aligned with the theme.

To implement a P+7 technique that specifically targets nouns, we would most likely need some extra steps. First a language processing model which could be used to tag each word in the text and identify nouns. Once identified, these nouns would be passed through the GPT-2 model which would initiate the process of replacement