This week, I explored a variation of the **N+7 technique**, which, in itself, is a word-replacement method where each noun in a text is replaced with the noun that appears seven entries later in the dictionary. Instead of using a dictionary, the idea was to adapt this into the **P+7 technique**—where a word in a sentence is replaced with the 7th most probable word predicted by GPT-2's vocabulary model based on contextual probability. To test this approach, I applied it to Wallace Stevens' renowned poem, The Snow Man, and picked up on some interesting patterns.

With the P+7 technique, the poem now reads as follows:

One must have a mind of her

To regard the frost and the death

Of the pine-trees crusted with oil

And have been cold a long way

To behold the junipers shagged with white

The spruces rough in the distant horizon

Of the January sun; and not to have

Of any misery in the sound of the sound

In the sound of a few shots

Which is the sound of the voice

Full of the same day

That is blowing in the same bare air

For the listener, who listens in the morning

And, nothing himself, I

Nothing that is not there and the nothing that isn

I found it fascinating how the model isn't just focused on completing the line with a closing word, but rather on selecting the most contextually suitable word to follow, whether it makes sense or not. This sometimes results in lines that feel abruptly cut off. Take, for instance, this absolute cliffhanger of an ending: "And, nothing himself, I; Nothing that is not there and the nothing that isn".

It was even more interesting to compare it with other iterations of this process, so I then tried the P+70 approach, giving me lower-probability words than the first iteration.

One must have a mind of rhythm

To regard the frost and the heavy

Of the pine-trees crusted with this

And have been cold a long a

To behold the junipers shagged with dust

The spruces rough in the distant distant

Of the January sun; and not to eat

Of any misery in the sound of the hammer

In the sound of a few steps

Which is the sound of the bullet

Full of the same shape

That is blowing in the same bare wind

For the listener, who listens in the past

And, nothing himself, yet

Nothing that is not there and the nothing that lives

To my surprise, the lower-probability words in my experiment turned out to be far more specific and semantically rich—*rhythm*, *hammer*, *bullet*, *steps*, *dust*, *lives*. This turned out much more poetic than the first time, as the model seemed to gravitate towards more descriptive nouns as the probability was decreasing.

It makes sense: higher-probability words tend to be function words like *the, that, a,* which are common in any sentence, and the chances of slotting them after any word in a sentence are high. But in any experiment like this, perhaps words with lower probability are interesting if nuance and depth is the goal.