Patrick Chavez-Nadarajah

Professor Vigliensoni

CART 498

January 29, 2026

CART 498 – Assignment 2 Essay

For this assignment, I decided to use a high number value for the "x" variable, in order to see how abstract the sentences could get. However, I still kept the "x" number in the two digits, so as to not let the poem finish every sentence with one or two-letter tokens. The number I settled on was 64, due in part to thinking about the "Nintendo 64" at the time and also the fact that the results were crude and amusing, if also a little nonsensical. The tokens generated were either full words, parts of words or simply periods. That being said, even with a low-priority number like 64, GPT-2 could still formulate a couple of coherent sentences; this implies that the model has a solid foundation for sentence building. It should be noted that with the more incomplete sentences, there definitely seems to be a degree of confusion for the machine, almost as if it is trying to repeat an earlier word in the sentence in a desperate attempt to stay cohesive.

When trying to make a noun-based P+7 technique, I would first ask Google Gemini to make GPT-2 only recognize tokens that contain complete words and exclude anything else. Then, Gemini would narrow down that filtered token pool to only accepting nouns. The next step would then involve creating code that targets only nouns in the poem. Then, the code

would replace the targeted nouns with the 7th spot in GPT-2's priority list. Finally, Gemini would

show both the original poem and its modified version side-by-side.