DLP -Wuk-4 Graded Assignment - 4

Assume that we want to continue pertaining a model containing 7 billion parameters with a context length of 2048 and the embedding dimension (model dimension) of 2048. The dataset contains 1 million samples (the size of each sample is exactly equal to the context length of the model). Suppose we set "per device batch size" to 16 and the gradient accumulation steps to 4.

the net up dates occur in neural netwood training after processing I bother of data.

1 param = 4 bytes (how? > 1/ 32 > 32 - 4) memacy ug (in 69B) = na. of param x bytes por param

= 7x109 xy = 28 1x109 7 billist

There is no ordan of context len in the memory org., the context len is more our less org. for credting the vector store.

no. of pavamo = context_len x no of lables (this includes) (also known as embedding_dim)

$$= 2048 \times 8 = 16384 - 2048 (1 each bias)$$

$$= (14836)$$

-leve as it changes only the output layer of classifica" head, which is the linear layer. This is always the layers of 12 self attention & FFN)

