Calvin AI/ML Handout Mar 19, 2025	Name:
-	where the user asks "Tell me a joke" and the model responds e.co/spaces/CalvinU/writing-prototypes for the full example.
 Write an example of the "document" (the sequence one of the first words of the joke. Mark the boundar Write an example of the next-token distribution for 	
Next-Token Generation Go to https://huggingface.co/spaces/kcarnold/next-tok	en to complete the following exercises.
Greedy Generation Generate <i>one complete translation</i> . At each step, use the probability by taking the sum of the logprobs for each	
Our translation (loss =):	
	ole from the top tokens according to their probability. To d the first number under the cumulative probability column
Then repeat the process again, drawing different rando within the first few tokens, re-draw until you do.)	om numbers. (If you don't end up with different choices
Our translations:	
1. (loss =):	

1.	(loss =	
2.	(loss =	

Modifying the generation

Start the translation more informally (like "Hey y'all"), then see how the rest of the translation changes.

Informal translation (loss =):

Beam Search Generation

Generate 2 complete translations. Start by taking the top 2 starting tokens. For each of them, find the most likely *following* token. But instead of keeping all 4 possible sequences, only keep the sequences with the largest total logprob (including the new token).

Before you leave, pick a couple of these questions to react to:

- 1. What was the most important concept from today for you?
- 2. What was the muddiest concept today?
- 3. How does what we did today connect with what you've learned before?
- 4. What would you like to review or clarify next time we meet?
- 5. What are you curious, hopeful, or excited about?