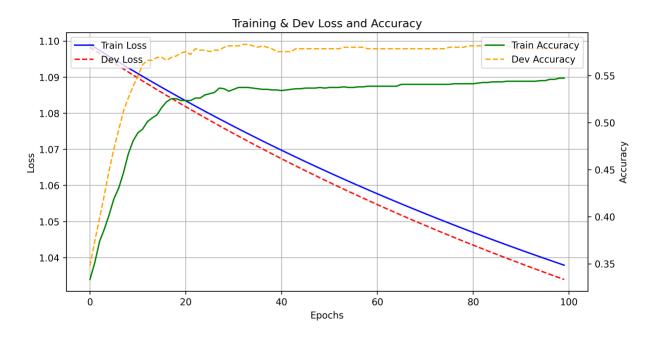
Checkpoint 2.1:

First 5: [4.9, 4.1, 5.7, 4.3, 4.3] Last 5: [4.2, 4.4, 4.2, 4.2, 3.7]

Checkpoint 2.2:

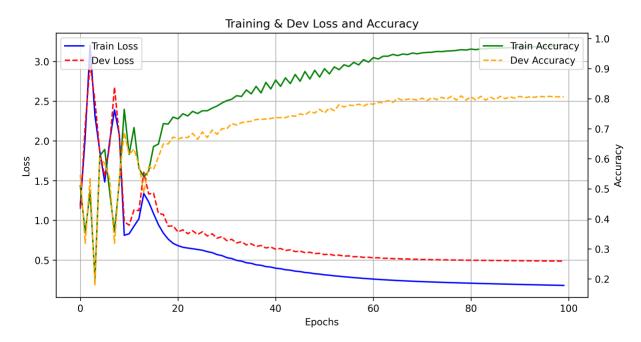
Accuracy plot saved to results/training_plot.png



Checkpoint 2.3:

+-		-+-		+-		-+-		-+
			1e-05		0.001		0.1	
+-		-+-		+-		-+-		+
	0.1		0.591		0.591		0.589	1
	1		0.72		0.723		0.592	
	10		0.806		0.731		0.318	
+-		-+-		-+-		-+-		-+

Best hyperparameters: lr=10, l2_penalty=1e-05 Accuracy plot saved to results/best training plot.png



Checkpoint 2.4:
[('The', 'O'), ('horse', 'O'), ('raced', 'N'), ('past', 'O'), ('the',
'O'), ('barn', 'N'), ('fell', 'O'), ('.', 'O')]
[('For', 'V'), ('3', 'O'), ('years', 'N'), (',', 'O'), ('we', 'N'),
('attended', 'V'), ('s.B.U.', 'N'), ('in', 'O'), ('the', 'O'), ('CS',
'N'), ('program', 'N'), ('.', 'O')]
[('Did', 'O'), ('you', 'N'), ('hear', 'O'), ('Sam', 'N'), ('tell', 'V'),
('me', 'N'), ('to', 'O'), ('"', 'O'), ('chill', 'N'), ('out', 'O'), ('"',
'O'), ('yesterday', 'N'), ('?', 'O'), ('#rude', 'O')]

Qualitative Observations:

- 1. Performance on the test data is below average, likely because 50% of the tokens are out-of-bag vocabulary.
- 2. The model has learned that the token "the" (not "The") is generally followed by a noun, as it correctly predicted the tags for "barn" and "CS" but not for "horse".
- 3. It has also learned that tokens with capital letters are generally nouns, as it correctly predicted the tags for "S.B.U.", "CS", and "Sam", despite them being out-of-bag vocabulary.