Report

**Data Visualization**

**Training Process (GPT2)**

601it [00:07, 82.80it/s]

61it [00:00, 83.94it/s]

100%|██████████| 6512/6512 [34:00<00:00, 3.19it/s]

100%|██████████| 622/622 [03:14<00:00, 3.20it/s]

Epoch 0/500 | Train Perplexity: 109157.343 | Train Loss: 11.596 | Valid Perplexity: 112455.188 | Valid Loss: 11.589

100%|██████████| 6512/6512 [1:35:20<00:00, 1.14it/s]

100%|██████████| 622/622 [03:20<00:00, 3.10it/s]Epoch 1/500 | Train Perplexity: 102.413 | Train Loss: 3.786 | Valid Perplexity: 69.095 | Valid Loss: 3.579

100%|██████████| 6512/6512 [1:35:40<00:00, 1.13it/s]

100%|██████████| 622/622 [03:22<00:00, 3.07it/s]Epoch 2/500 | Train Perplexity: 29.473 | Train Loss: 3.336 | Valid Perplexity: 56.108 | Valid Loss: 3.424

100%|██████████| 6512/6512 [1:36:11<00:00, 1.13it/s]

100%|██████████| 622/622 [03:19<00:00, 3.11it/s]Epoch 3/500 | Train Perplexity: 24.839 | Train Loss: 3.169 | Valid Perplexity: 51.202 | Valid Loss: 3.350

100%|██████████| 6512/6512 [1:48:46<00:00, 1.00s/it]

100%|██████████| 622/622 [04:32<00:00, 2.28it/s]Epoch 4/500 | Train Perplexity: 22.310 | Train Loss: 3.065 | Valid Perplexity: 48.816 | Valid Loss: 3.306

100%|██████████| 6512/6512 [2:12:01<00:00, 1.22s/it]

100%|██████████| 622/622 [03:32<00:00, 2.92it/s]Epoch 5/500 | Train Perplexity: 20.662 | Train Loss: 2.990 | Valid Perplexity: 47.499 | Valid Loss: 3.280

100%|██████████| 6512/6512 [1:41:34<00:00, 1.07it/s]

100%|██████████| 622/622 [03:29<00:00, 2.97it/s]Epoch 6/500 | Train Perplexity: 19.482 | Train Loss: 2.933 | Valid Perplexity: 46.442 | Valid Loss: 3.262

100%|██████████| 6512/6512 [1:39:11<00:00, 1.09it/s]

100%|██████████| 622/622 [03:24<00:00, 3.04it/s]Epoch 7/500 | Train Perplexity: 18.585 | Train Loss: 2.886 | Valid Perplexity: 46.101 | Valid Loss: 3.249

**Inference (GPT2)**

**GUI**



User Manual:

1. The Dropdown Model menu lets you pick which model to use.
2. Then press “Process: button to generate new Text.