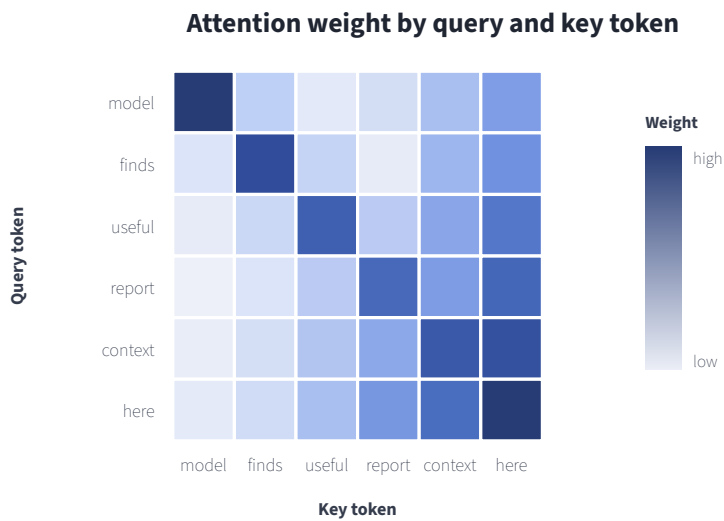


Transformer Evaluation Project

Project overview

This mixed project demonstrates a deliberate publication assembled from Markdown and a saved Jupyter notebook. All values are synthetic.



The project contains supporting assets that remain available without being forced into the combined PDF.

Saved Transformer Analysis

This notebook contains synthetic saved outputs for publication testing. It does not require execution.

```
1 summary = load_validation_run()
```

```
1 Loaded 480 synthetic validation examples across 12 checkpoints.  
2 No external dataset was accessed.
```

```
1 checkpoint_frame
```

Table 2.1: Synthetic transformer checkpoint comparison (part 1 of 3; columns 2-7, key column repeated)

Checkpoint	Loss	Accuracy	Precision	Recall	F1	Latency ms
Base	0.82	71%	70%	69%	69%	44
Epoch 4	0.54	79%	78%	77%	77%	39
Epoch 8	0.39	84%	84%	82%	83%	34
Epoch 12	0.31	87%	87%	86%	86%	31

Table 2.2: Synthetic transformer checkpoint comparison (part 2 of 3; columns 8-13, key column repeated)

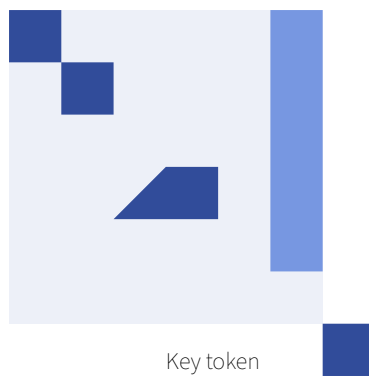
Checkpoint	Memory MB	Tokens/s	Parameters M	Energy Wh	Drift	Calibration
Base	920	1180	42	8.4	0.12	0.18
Epoch 4	910	1320	42	7.8	0.09	0.13
Epoch 8	884	1460	42	7.1	0.06	0.09
Epoch 12	860	1580	42	6.6	0.04	0.06

Table 2.3: Synthetic transformer checkpoint comparison (part 3 of 3; columns 14-14, key column repeated)

Checkpoint	Status
Base	Review
Epoch 4	Keep
Epoch 8	Keep
Epoch 12	Selected

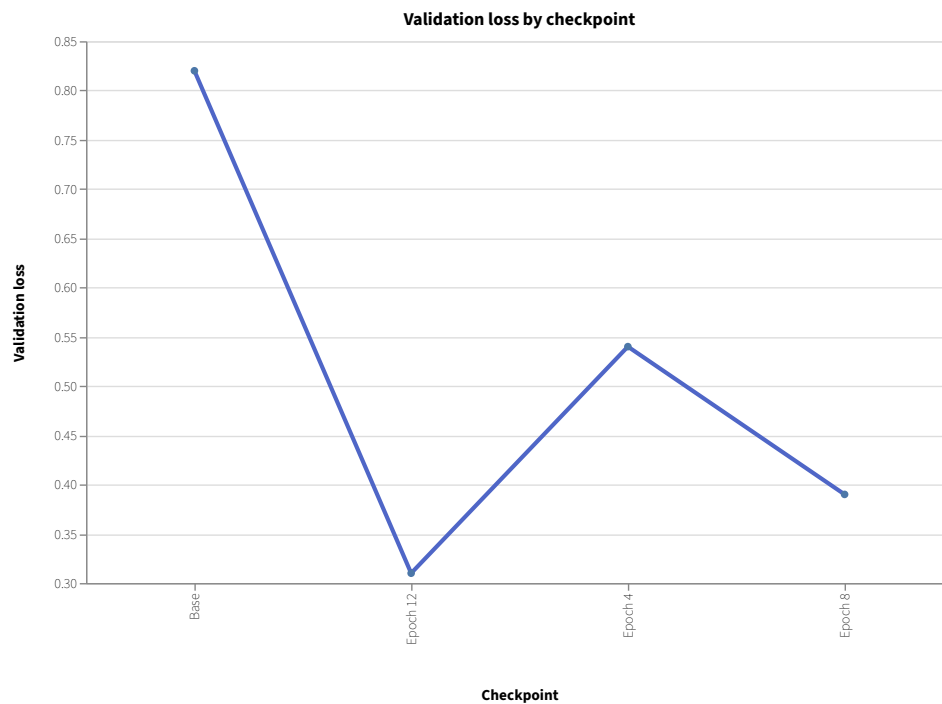
```
1 display(attention_map)
```

Synthetic attention map



Synthetic attention map saved as an SVG notebook output

```
1 plot_checkpoint_loss(checkpoint_frame)
```



Validation loss from the saved checkpoint summary

Interpretation

The final saved checkpoint has the lowest synthetic loss. These values demonstrate publishing behavior and are not a scientific claim.

Review appendix

Publication checklist

- Confirm the selected output and document order.
- Review notebook warnings without executing code.
- Check table bands, repeated keys, captions, and alternative text.
- Compare the final export with the current preview.

Scope

The corpus is a product compatibility fixture. It contains no production model measurements, user documents, private repository names, local file paths, or personal information.