

Part A

epochs=3, lr=5e-5, lora_r=8, lora_alpha=16, lora_dropout=0.05

img_name=1

Full Fine-Tune Results:

Test Accuracy: 0.8550

Test F1: 0.8547

Training Time: 54.61s

LoRA Fine-Tune Results:

Test Accuracy: 0.8500

Test F1: 0.8500

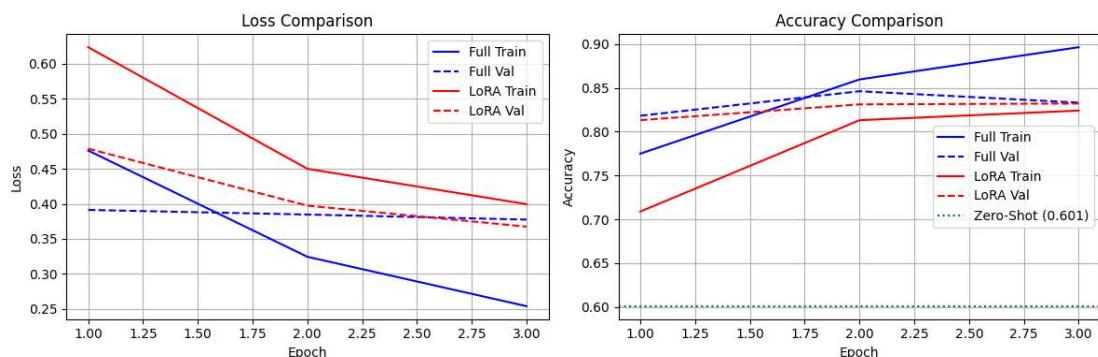
Training Time: 51.38s

=====				
FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.52	0
Full Fine-Tune	0.8550	0.8547	54.61	14,350,874
LoRA Fine-Tune	0.8500	0.8500	51.38	626

=====

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +25.4% but trains 14,350,874 params
- LoRA improves by +24.9% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +0.5%



full_size=57432483, lora_size=251465

epoch=5, lr=5e-5, lora_r=8, lora_alpha=16, lora_dropout=0.05

img_name=2

Full Fine-Tune Results:

Test Accuracy: 0.8630

Test F1: 0.8629

Training Time: 92.50s

LoRA Fine-Tune Results:

Test Accuracy: 0.8590

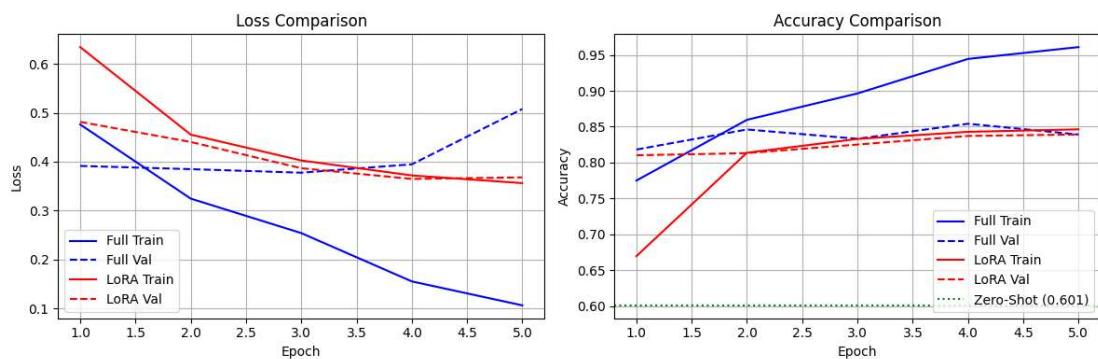
Test F1: 0.8589

Training Time: 85.65s

FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.50	0
Full Fine-Tune	0.8630	0.8629	92.50	14,350,874
LoRA Fine-Tune	0.8590	0.8589	85.65	626

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +26.2% but trains 14,350,874 params
- LoRA improves by +25.8% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +0.4%



full_size=57432483, lora_size=251465

epoch=8, lr=5e-5, lora_r=8, lora_alpha=16, lora_dropout=0.05

img_name=3

Full Fine-Tune Results:

Test Accuracy: 0.8630

Test F1: 0.8629

Training Time: 146.62s

LoRA Fine-Tune Results:

Test Accuracy: 0.8570

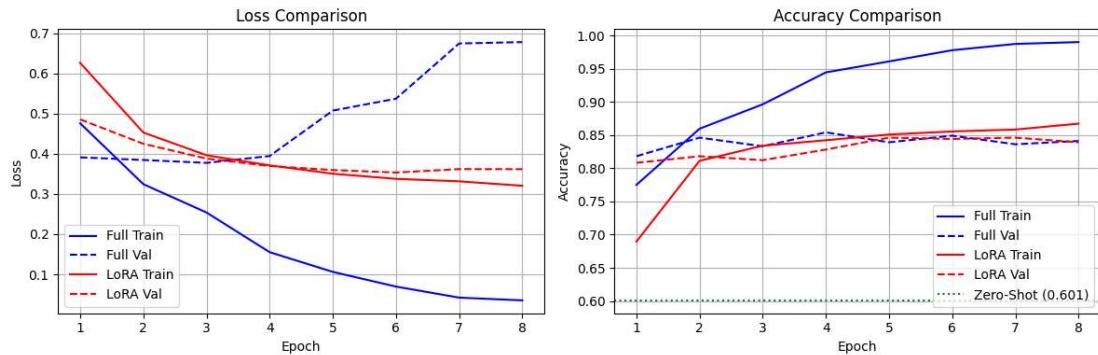
Test F1: 0.8570

Training Time: 136.37s

FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.48	0
Full Fine-Tune	0.8630	0.8629	146.62	14,350,874
LoRA Fine-Tune	0.8570	0.8570	136.37	626

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +26.2% but trains 14,350,874 params
- LoRA improves by +25.6% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +0.6%



full_size=57432483, lora_size=251465

epoches=5, lr=3e-5, lora_r=8, lora_alpha=16, lora_dropout=0.05

img_name=4

Full Fine-Tune Results:

Test Accuracy: 0.8790

Test F1: 0.8789

Training Time: 91.11s

LoRA Fine-Tune Results:

Test Accuracy: 0.8590

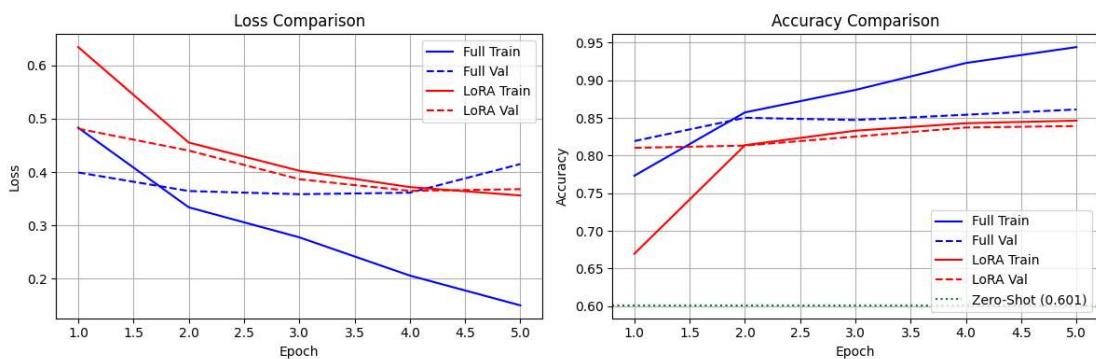
Test F1: 0.8589

Training Time: 85.28s

FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.44	0
Full Fine-Tune	0.8790	0.8789	91.11	14,350,874
LoRA Fine-Tune	0.8590	0.8589	85.28	626

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +27.8% but trains 14,350,874 params
- LoRA improves by +25.8% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +2.0%



full_size=57432483, lora_size=251465

`epoch=5, lr=5e-5, lora_r=8, lora_alpha=16, lora_dropout=0.05`

`img_name=2`

Full Fine-Tune Results:

Test Accuracy: 0.8630

Test F1: 0.8629

Training Time: 92.50s

LoRA Fine-Tune Results:

Test Accuracy: 0.8590

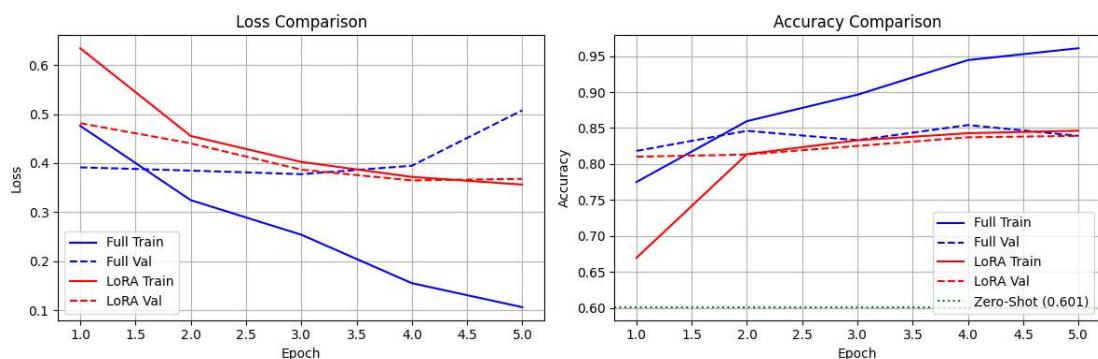
Test F1: 0.8589

Training Time: 85.65s

FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.50	0
Full Fine-Tune	0.8630	0.8629	92.50	14,350,874
LoRA Fine-Tune	0.8590	0.8589	85.65	626

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +26.2% but trains 14,350,874 params
- LoRA improves by +25.8% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +0.4%



`full_size=57432483, lora_size=251465`

epochs=5, lr=1e-4, lora_r=8, lora_alpha=16, lora_dropout=0.05

img_name=5

Full Fine-Tune Results:

Test Accuracy: 0.8730

Test F1: 0.8729

Training Time: 91.46s

LoRA Fine-Tune Results:

Test Accuracy: 0.8590

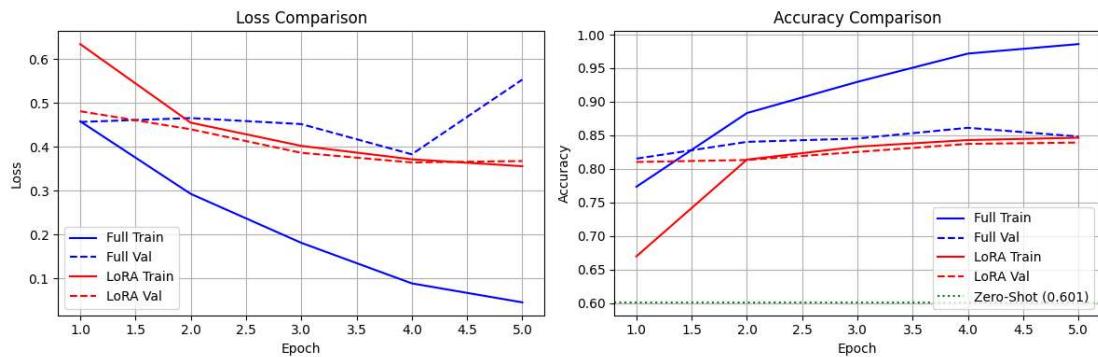
Test F1: 0.8589

Training Time: 85.17s

=====				
FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.48	0
Full Fine-Tune	0.8730	0.8729	91.46	14,350,874
LoRA Fine-Tune	0.8590	0.8589	85.17	626

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +27.2% but trains 14,350,874 params
- LoRA improves by +25.8% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +1.4%



full_size=57432483, lora_size=251465

PartB

epoch=5, lr=3e-5, lora_r=4, lora_alpha=16, lora_dropout=0.05

img_name=6

Full Fine-Tune Results:

Test Accuracy: 0.8790

Test F1: 0.8789

Training Time: 91.02s

LoRA Fine-Tune Results:

Test Accuracy: 0.8470

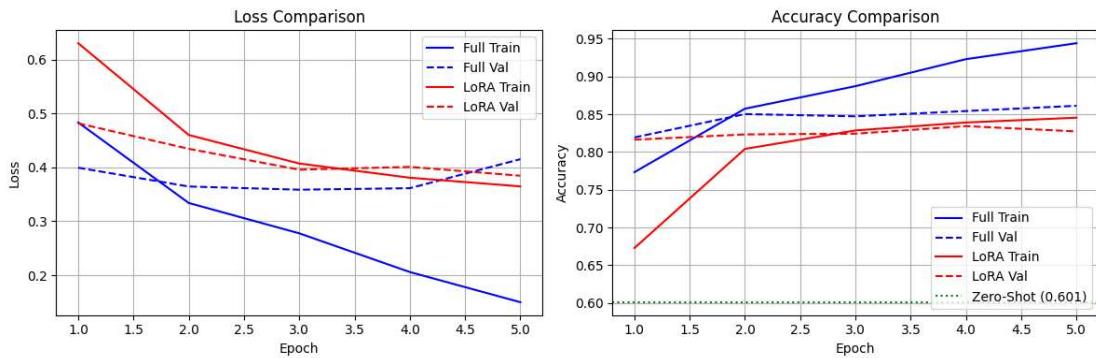
Test F1: 0.8465

Training Time: 85.31s

FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.51	0
Full Fine-Tune	0.8790	0.8789	91.02	14,350,874
LoRA Fine-Tune	0.8470	0.8465	85.31	626

Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +27.8% but trains 14,350,874 params
- LoRA improves by +24.6% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +3.2%



full_size=57432483, lora_size=131641

epoches=5, lr=3e-5, lora_r=8, lora_alpha=16, lora_dropout=0.05

img_name=4

Full Fine-Tune Results:

Test Accuracy: 0.8790

Test F1: 0.8789

Training Time: 91.11s

LoRA Fine-Tune Results:

Test Accuracy: 0.8590

Test F1: 0.8589

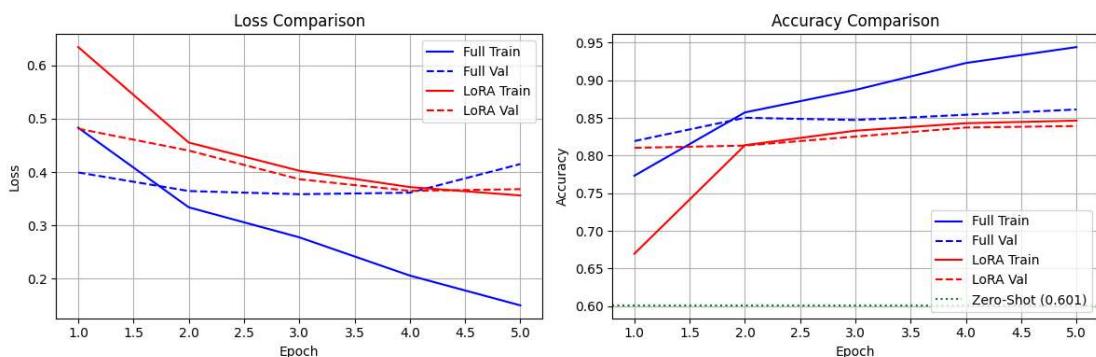
Training Time: 85.28s

=====				
FINAL COMPARISON				
Method	Accuracy	F1	Time	Params

Zero-Shot	0.6010	0.5324	1.44	0
Full Fine-Tune	0.8790	0.8789	91.11	14,350,874
LoRA Fine-Tune	0.8590	0.8589	85.28	626
=====				

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +27.8% but trains 14,350,874 params
- LoRA improves by +25.8% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +2.0%



full_size=57432483, lora_size=251465

epoch=5, lr=3e-5, lora_r=16, lora_alpha=16, lora_dropout=0.05

img_name=7

Full Fine-Tune Results:

Test Accuracy: 0.8790

Test F1: 0.8789

Training Time: 90.79s

LoRA Fine-Tune Results:

Test Accuracy: 0.8480

Test F1: 0.8480

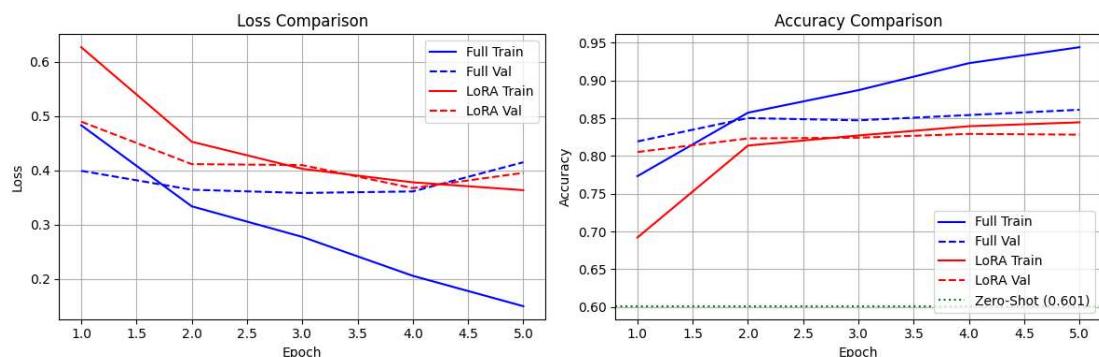
Training Time: 85.42s

=====				
FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.49	0
Full Fine-Tune	0.8790	0.8789	90.79	14,350,874
LoRA Fine-Tune	0.8480	0.8480	85.42	626

=====

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +27.8% but trains 14,350,874 params
- LoRA improves by +24.7% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +3.1%



full_size=57432483, lora_size=491122

epoch=5, lr=3e-5, lora_r=8, lora_alpha=8, lora_dropout=0.05

img_name=8

Full Fine-Tune Results:

Test Accuracy: 0.8790

Test F1: 0.8789

Training Time: 90.93s

LoRA Fine-Tune Results:

Test Accuracy: 0.8570

Test F1: 0.8569

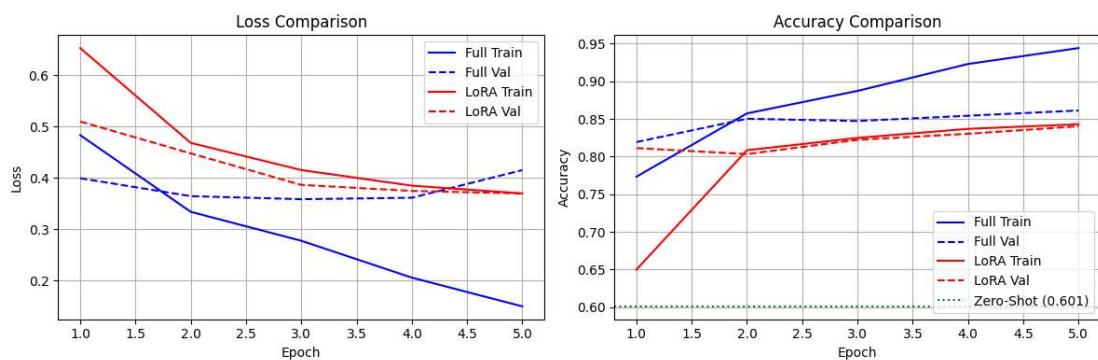
Training Time: 84.82s

=====				
FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.49	0
Full Fine-Tune	0.8790	0.8789	90.93	14,350,874
LoRA Fine-Tune	0.8570	0.8569	84.82	626

=====

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +27.8% but trains 14,350,874 params
- LoRA improves by +25.6% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +2.2%



full_size=57432483, lora_size=251464

epoches=5, lr=3e-5, lora_r=8, lora_alpha=16, lora_dropout=0.05

img_name=4

Full Fine-Tune Results:

Test Accuracy: 0.8790

Test F1: 0.8789

Training Time: 91.11s

LoRA Fine-Tune Results:

Test Accuracy: 0.8590

Test F1: 0.8589

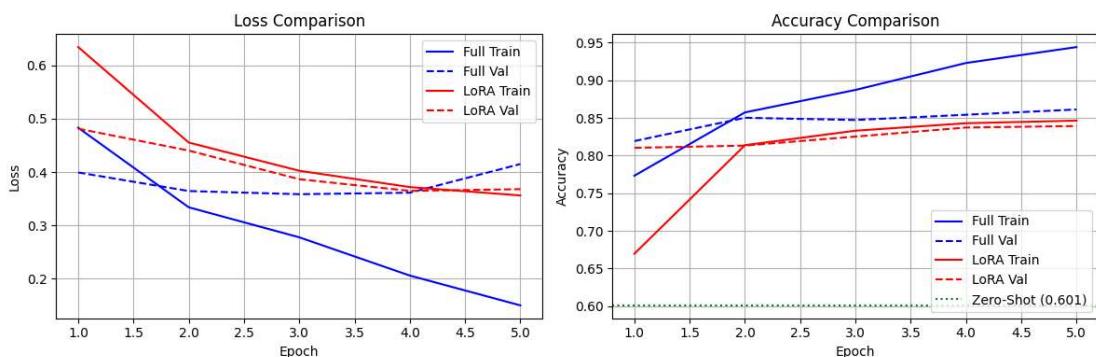
Training Time: 85.28s (this is not overfitting)

=====				
FINAL COMPARISON				
Method	Accuracy	F1	Time	Params

Zero-Shot	0.6010	0.5324	1.44	0
Full Fine-Tune	0.8790	0.8789	91.11	14,350,874
LoRA Fine-Tune	0.8590	0.8589	85.28	626
=====				

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +27.8% but trains 14,350,874 params
- LoRA improves by +25.8% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +2.0%



full_size=57432483, lora_size=251465

`epoch=5, lr=3e-5, lora_r=8, lora_alpha=32, lora_dropout=0.05`

`img_name=9`

Full Fine-Tune Results:

Test Accuracy: 0.8790

Test F1: 0.8789

Training Time: 91.02s

LoRA Fine-Tune Results:

Test Accuracy: 0.8590

Test F1: 0.8589

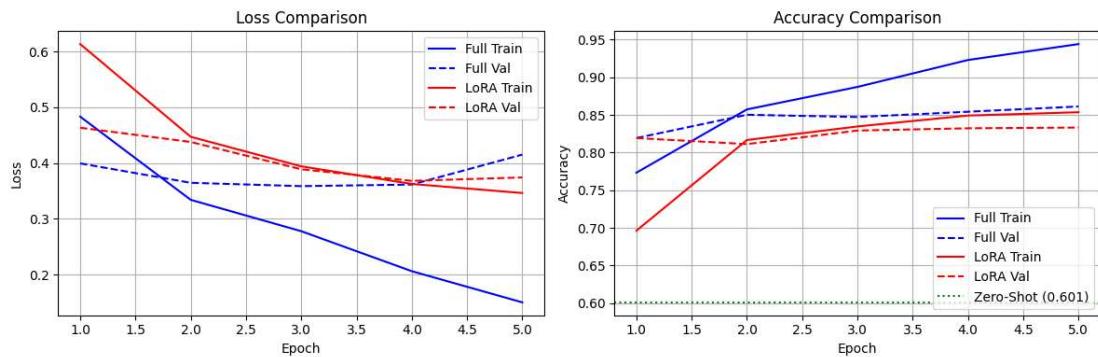
Training Time: 85.13s

=====				
FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.47	0
Full Fine-Tune	0.8790	0.8789	91.02	14,350,874
LoRA Fine-Tune	0.8590	0.8589	85.13	626

=====

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +27.8% but trains 14,350,874 params
- LoRA improves by +25.8% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +2.0%



`full_size=57432483, lora_size=251465`

epochs=5, lr=3e-5, lora_r=8, lora_alpha=16, lora_dropout=0.0

img_name=10

Full Fine-Tune Results:

Test Accuracy: 0.8790

Test F1: 0.8789

Training Time: 90.45s

LoRA Fine-Tune Results:

Test Accuracy: 0.8580

Test F1: 0.8578

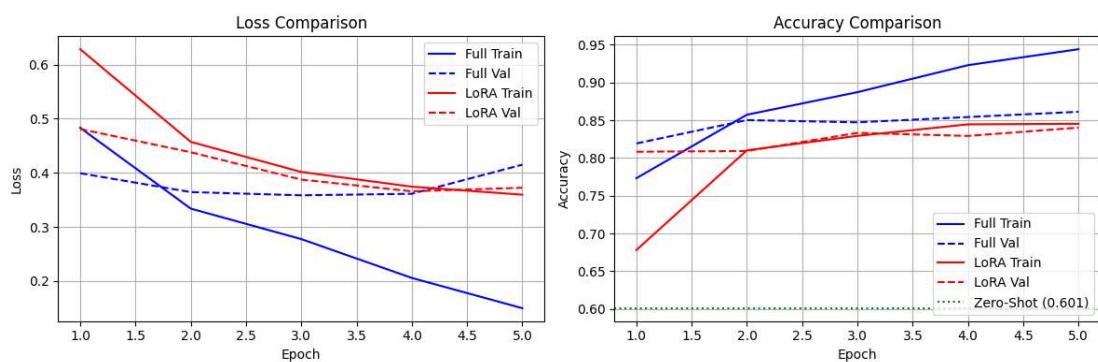
Training Time: 84.29s

=====				
FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.49	0
Full Fine-Tune	0.8790	0.8789	90.45	14,350,874
LoRA Fine-Tune	0.8580	0.8578	84.29	626

=====

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +27.8% but trains 14,350,874 params
- LoRA improves by +25.7% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +2.1%



full_size=57432483, lora_size=251464

epoch=5, lr=3e-5, lora_r=8, lora_alpha=16, lora_dropout=0.05

img_name=4

Full Fine-Tune Results:

Test Accuracy: 0.8790

Test F1: 0.8789

Training Time: 91.11s

LoRA Fine-Tune Results:

Test Accuracy: 0.8590

Test F1: 0.8589

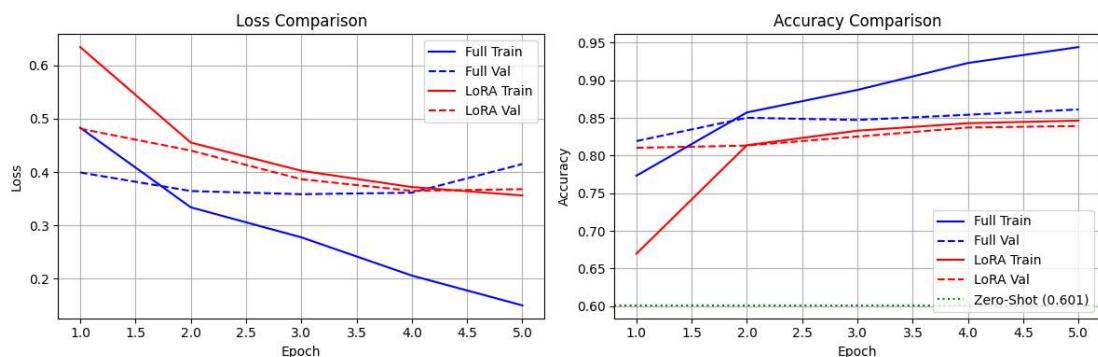
Training Time: 85.28s

=====				
FINAL COMPARISON				
Method	Accuracy	F1	Time	Params

Zero-Shot	0.6010	0.5324	1.44	0
Full Fine-Tune	0.8790	0.8789	91.11	14,350,874
LoRA Fine-Tune	0.8590	0.8589	85.28	626
=====				

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +27.8% but trains 14,350,874 params
- LoRA improves by +25.8% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +2.0%



full_size=57432483, lora_size=251465

epoch=5, lr=3e-5, lora_r=8, lora_alpha=16, lora_dropout=0.1

img_name=11

Full Fine-Tune Results:

Test Accuracy: 0.8790

Test F1: 0.8789

Training Time: 90.55s

LoRA Fine-Tune Results:

Test Accuracy: 0.8550

Test F1: 0.8550

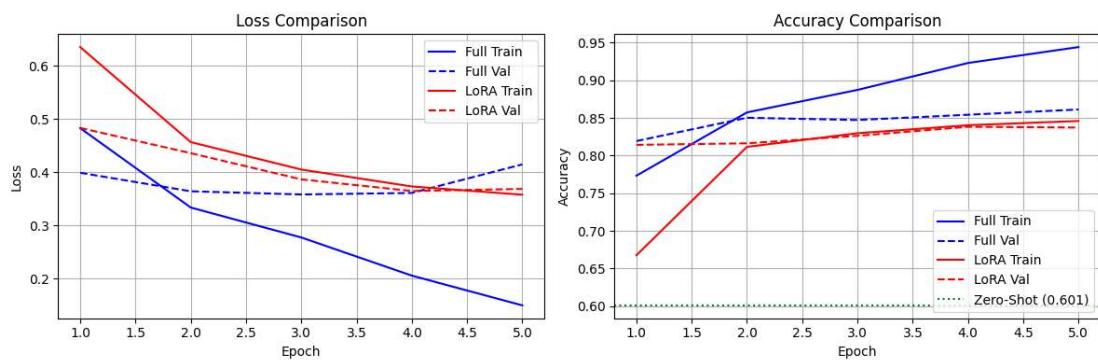
Training Time: 84.93s

=====				
FINAL COMPARISON				
Method	Accuracy	F1	Time	Params
Zero-Shot	0.6010	0.5324	1.52	0
Full Fine-Tune	0.8790	0.8789	90.55	14,350,874
LoRA Fine-Tune	0.8550	0.8550	84.93	626

=====

📊 Key Insights:

- Zero-shot provides 60.1% accuracy with NO training
- Full fine-tune improves by +27.8% but trains 14,350,874 params
- LoRA improves by +25.4% training only 626 params (0.0% of full)
- LoRA is 1.1x faster than full fine-tuning
- Performance gap: Full vs LoRA = +2.4%



full_size=57432483, lora_size=251464