

# Untitled

January 21, 2024

```
[1]: import re
import ast
import argparse
import matplotlib.pyplot as plt
import pandas as pd

def extract_json_data_from_text(text):
    json_pattern = re.compile(r'\{.*?\}')
    json_data_list = []

    matches = json_pattern.finditer(text)
    for match in matches:
        try:
            json_data = ast.literal_eval(match.group())
            json_data_list.append(json_data)
        except (SyntaxError, ValueError) as e:
            print(f"Error evaluating JSON-like string: {e}")
            print(f"Problematic string: {match.group()}")

    return json_data_list

def collect_values_by_key(json_data_list, keys_to_collect):
    values_by_key = {key: [] for key in keys_to_collect}

    unique_epochs = set()

    for json_data in json_data_list:
        for key, value in json_data.items():
            if key in keys_to_collect:
                # Special handling for 'epoch' key to exclude duplicates
                if key == 'epoch' and value in unique_epochs:
                    continue
                values_by_key[key].append(value)

            if key == 'epoch':
                unique_epochs.add(value)
```

```

    return values_by_key

def plot_rouge_subplots(values_by_key):
    rouge_keys = ['rouge1', 'rouge2', 'rougeL', 'rougeLsum']

    fig, axs = plt.subplots(2, 2, figsize=(10, 8))

    values_by_key['epoch'] = values_by_key['epoch'][:-1]

    for i, key in enumerate(rouge_keys):
        row = i // 2
        col = i % 2
        values = values_by_key[key]
        axs[row, col].plot(values_by_key['epoch'], values, marker='o',
↪linestyle='-', label=key)
        axs[row, col].set_xlabel('Epoch')
        axs[row, col].set_ylabel(f'{key} Scores')
        axs[row, col].set_title(f'{key} Scores Over Epochs')
        axs[row, col].grid(True)
        axs[row, col].legend()

    plt.tight_layout()
    plt.show()

def plot_loss(values_by_key):
    plt.figure()
    values = values_by_key['loss']
    plt.plot(values_by_key['epoch'], values, marker='o', linestyle='-',
↪color='r', label='loss')
    plt.xlabel('Epoch')
    plt.ylabel('Loss')
    plt.title('Loss Over Epochs')
    plt.grid(True)
    plt.legend()
    plt.show()

def print_results_table(values_by_key):
    df = pd.DataFrame({key: values_by_key[key] for key in ['epoch', 'rouge1',
↪'rouge2', 'rougeL', 'rougeLsum']})
    print(df)

def main(file_path):
    with open(file_path, 'r') as file:
        text = file.read()

    json_data_list = extract_json_data_from_text(text)

```

```

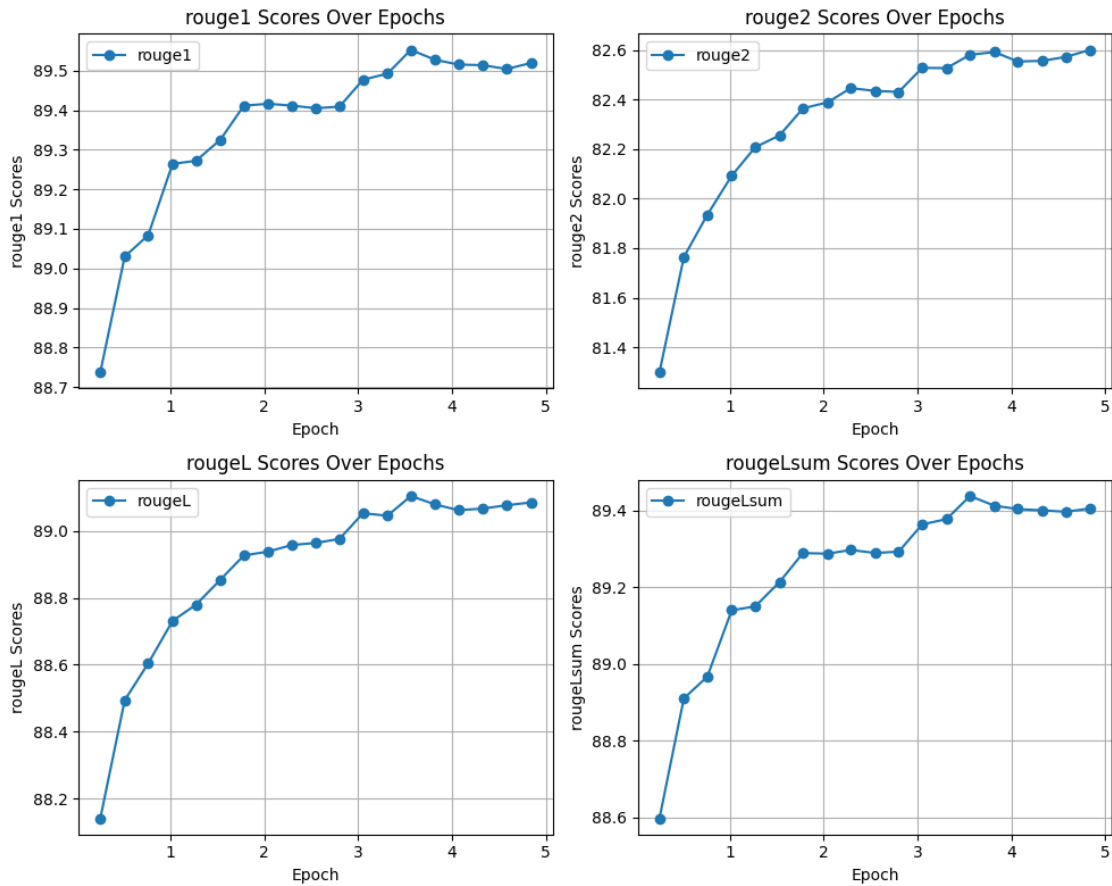
keys_to_collect = ['loss', 'epoch', 'rouge1', 'rouge2', 'rougeL',
↪ 'rougeLsum', 'gen_len', 'eval_loss', 'eval_runtime', 'train_runtime',
↪ 'train_loss']

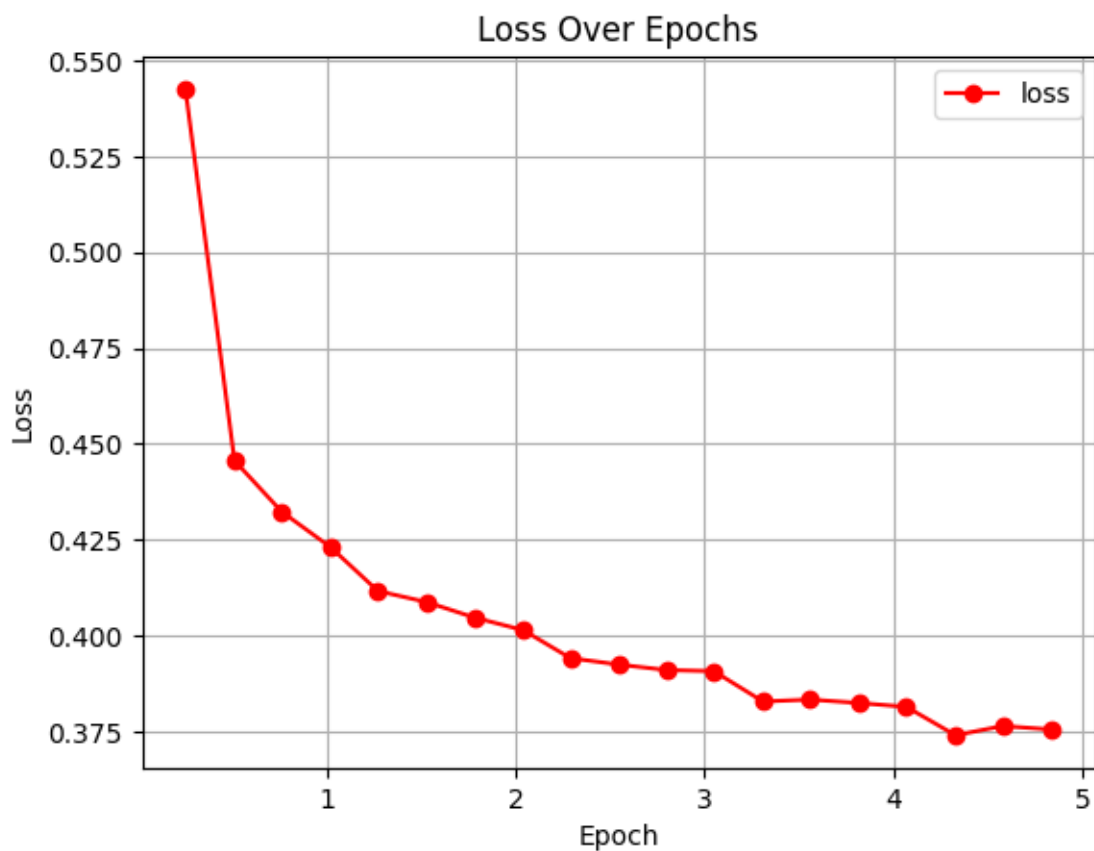
values_by_key = collect_values_by_key(json_data_list, keys_to_collect)

plot_rouge_subplots(values_by_key)
plot_loss(values_by_key)
print_results_table(values_by_key)

```

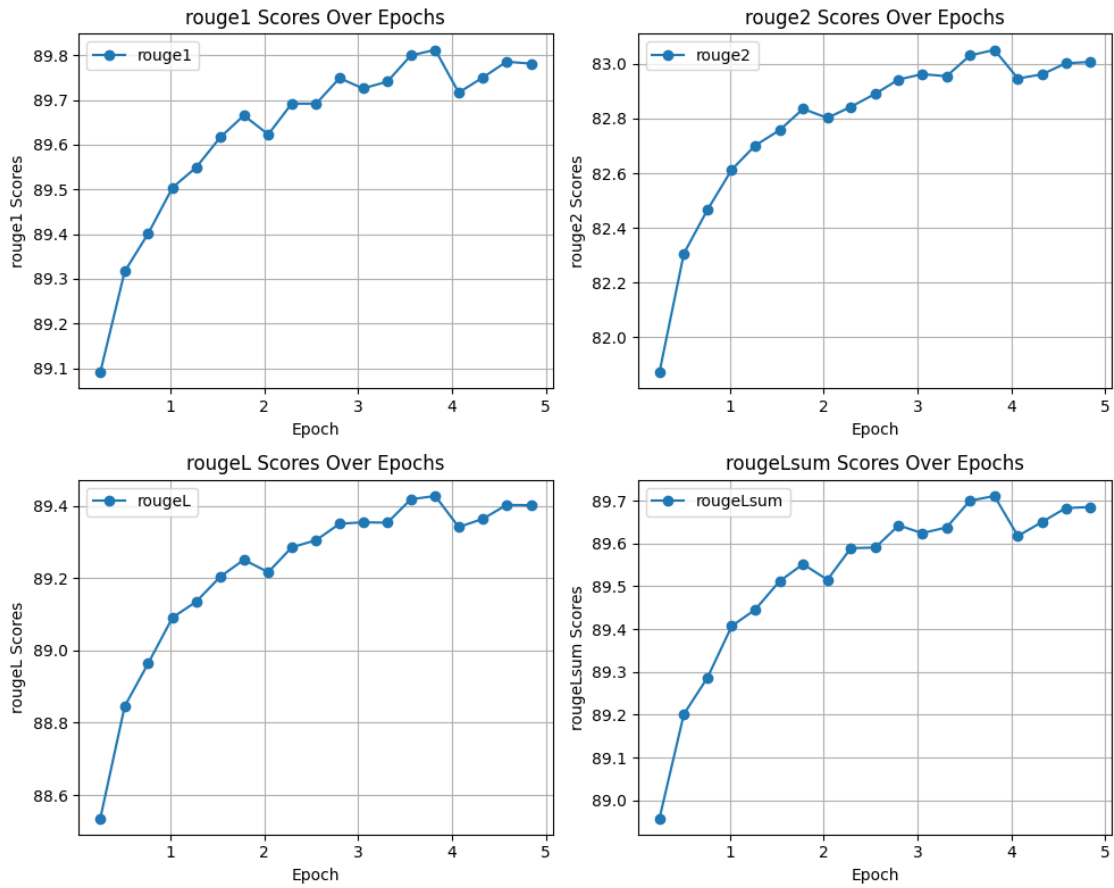
```
[2]: main("codellama_qlora_nf4_r1.log")
```

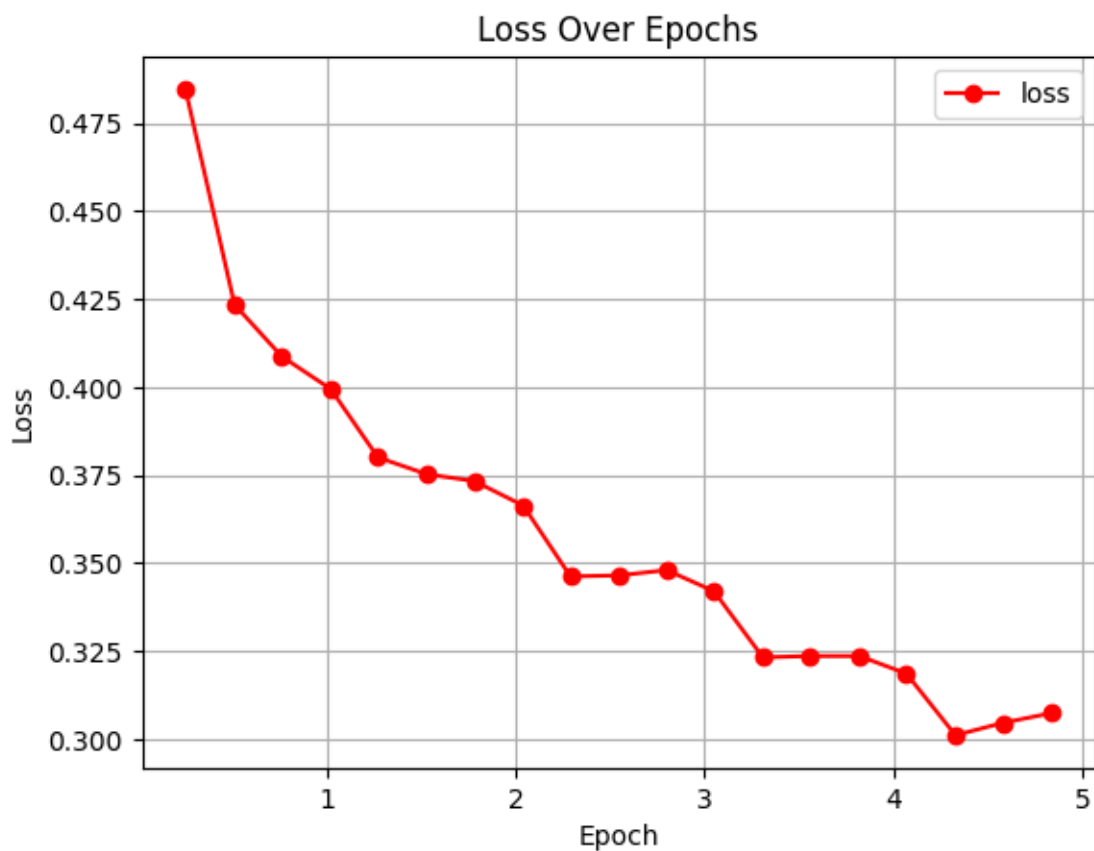




	epoch	rouge1	rouge2	rougeL	rougeLsum
0	0.25	88.7376	81.2997	88.1405	88.5979
1	0.51	89.0299	81.7642	88.4936	88.9103
2	0.76	89.0837	81.9349	88.6036	88.9667
3	1.02	89.2643	82.0923	88.7310	89.1397
4	1.27	89.2721	82.2072	88.7794	89.1496
5	1.53	89.3255	82.2553	88.8542	89.2132
6	1.78	89.4115	82.3642	88.9266	89.2887
7	2.04	89.4163	82.3885	88.9383	89.2869
8	2.29	89.4116	82.4458	88.9578	89.2967
9	2.55	89.4050	82.4347	88.9642	89.2887
10	2.80	89.4091	82.4305	88.9762	89.2924
11	3.05	89.4772	82.5277	89.0530	89.3631
12	3.31	89.4924	82.5267	89.0454	89.3771
13	3.56	89.5526	82.5806	89.1044	89.4371
14	3.82	89.5273	82.5913	89.0791	89.4119
15	4.07	89.5155	82.5535	89.0620	89.4031
16	4.33	89.5139	82.5560	89.0670	89.3998
17	4.58	89.5042	82.5718	89.0769	89.3961
18	4.84	89.5193	82.6003	89.0851	89.4047

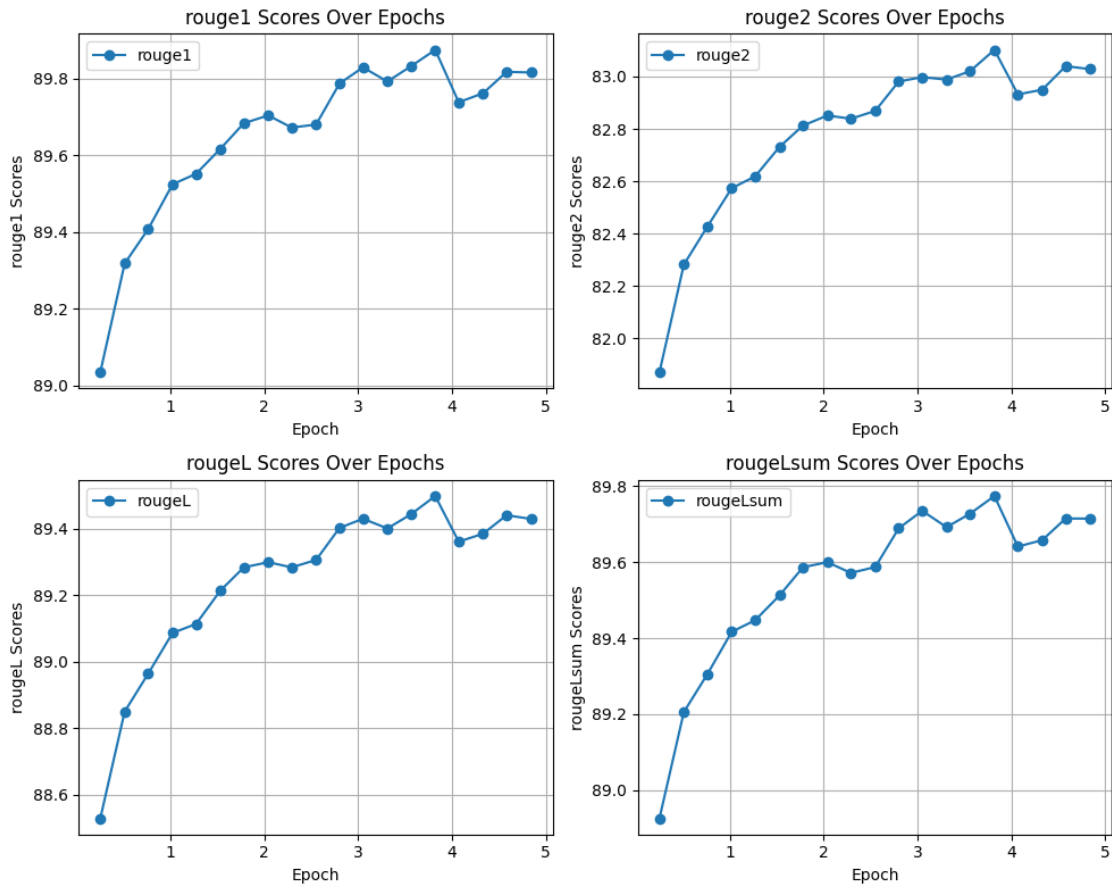
```
[3]: main("codellama_qlora_nf4_r8.log")
```

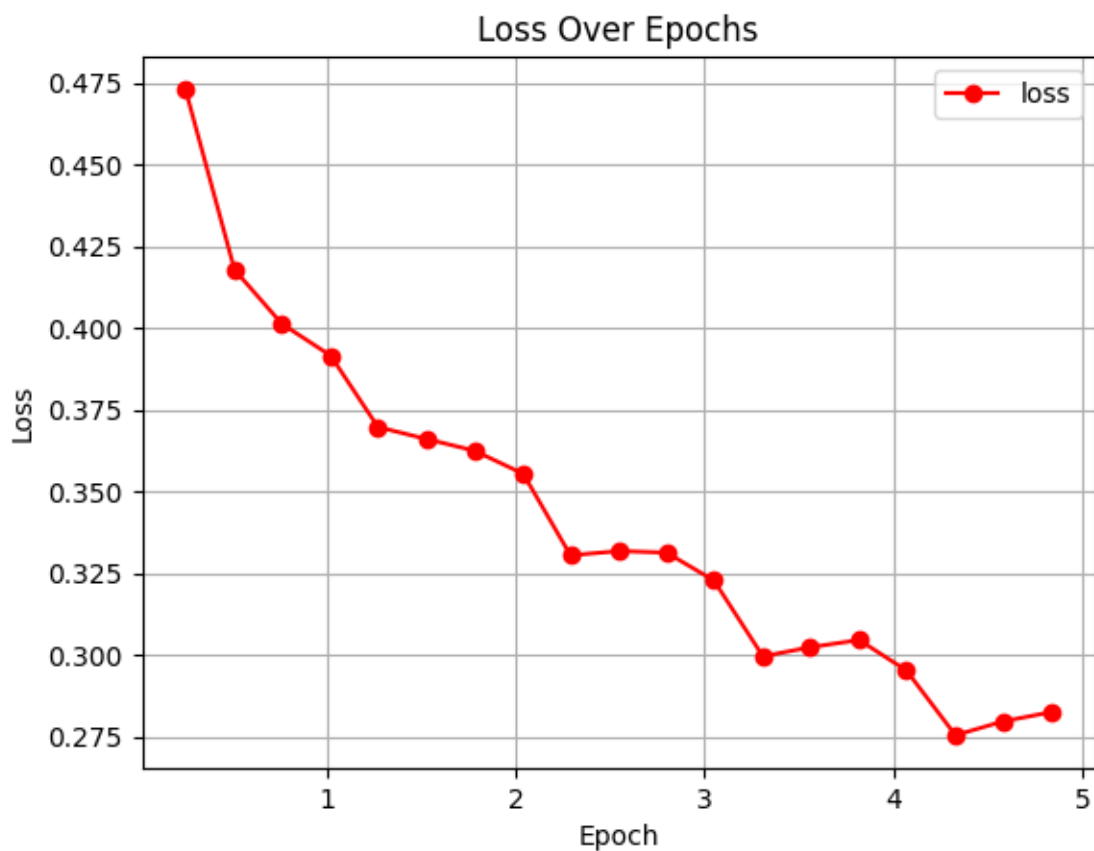




	epoch	rouge1	rouge2	rougeL	rougeLsum
0	0.25	89.0912	81.8722	88.5355	88.9580
1	0.51	89.3165	82.3064	88.8455	89.2013
2	0.76	89.4012	82.4654	88.9641	89.2859
3	1.02	89.5042	82.6132	89.0911	89.4069
4	1.27	89.5489	82.7017	89.1343	89.4453
5	1.53	89.6169	82.7577	89.2042	89.5117
6	1.78	89.6655	82.8356	89.2508	89.5515
7	2.04	89.6230	82.8027	89.2164	89.5151
8	2.29	89.6920	82.8431	89.2851	89.5888
9	2.55	89.6918	82.8910	89.3049	89.5903
10	2.80	89.7490	82.9432	89.3504	89.6421
11	3.05	89.7259	82.9627	89.3545	89.6239
12	3.31	89.7412	82.9553	89.3533	89.6373
13	3.56	89.7998	83.0311	89.4183	89.6999
14	3.82	89.8122	83.0516	89.4271	89.7106
15	4.07	89.7166	82.9469	89.3413	89.6173
16	4.33	89.7508	82.9622	89.3642	89.6502
17	4.58	89.7857	83.0025	89.4025	89.6825
18	4.84	89.7815	83.0074	89.4017	89.6849

```
[4]: main("codellama_qlora_nf4_r16.log")
```





	epoch	rouge1	rouge2	rougeL	rougeLsum
0	0.25	89.0349	81.8702	88.5285	88.9255
1	0.51	89.3182	82.2816	88.8501	89.2055
2	0.76	89.4077	82.4261	88.9639	89.3048
3	1.02	89.5244	82.5734	89.0867	89.4166
4	1.27	89.5517	82.6185	89.1136	89.4470
5	1.53	89.6170	82.7314	89.2143	89.5125
6	1.78	89.6836	82.8126	89.2842	89.5867
7	2.04	89.7040	82.8512	89.2998	89.5999
8	2.29	89.6723	82.8386	89.2842	89.5716
9	2.55	89.6802	82.8687	89.3066	89.5872
10	2.80	89.7873	82.9811	89.4031	89.6891
11	3.05	89.8291	82.9976	89.4306	89.7352
12	3.31	89.7923	82.9882	89.4014	89.6921
13	3.56	89.8319	83.0204	89.4438	89.7276
14	3.82	89.8748	83.1019	89.4990	89.7741
15	4.07	89.7383	82.9318	89.3616	89.6410
16	4.33	89.7618	82.9496	89.3855	89.6580
17	4.58	89.8175	83.0397	89.4411	89.7151
18	4.84	89.8159	83.0283	89.4301	89.7145



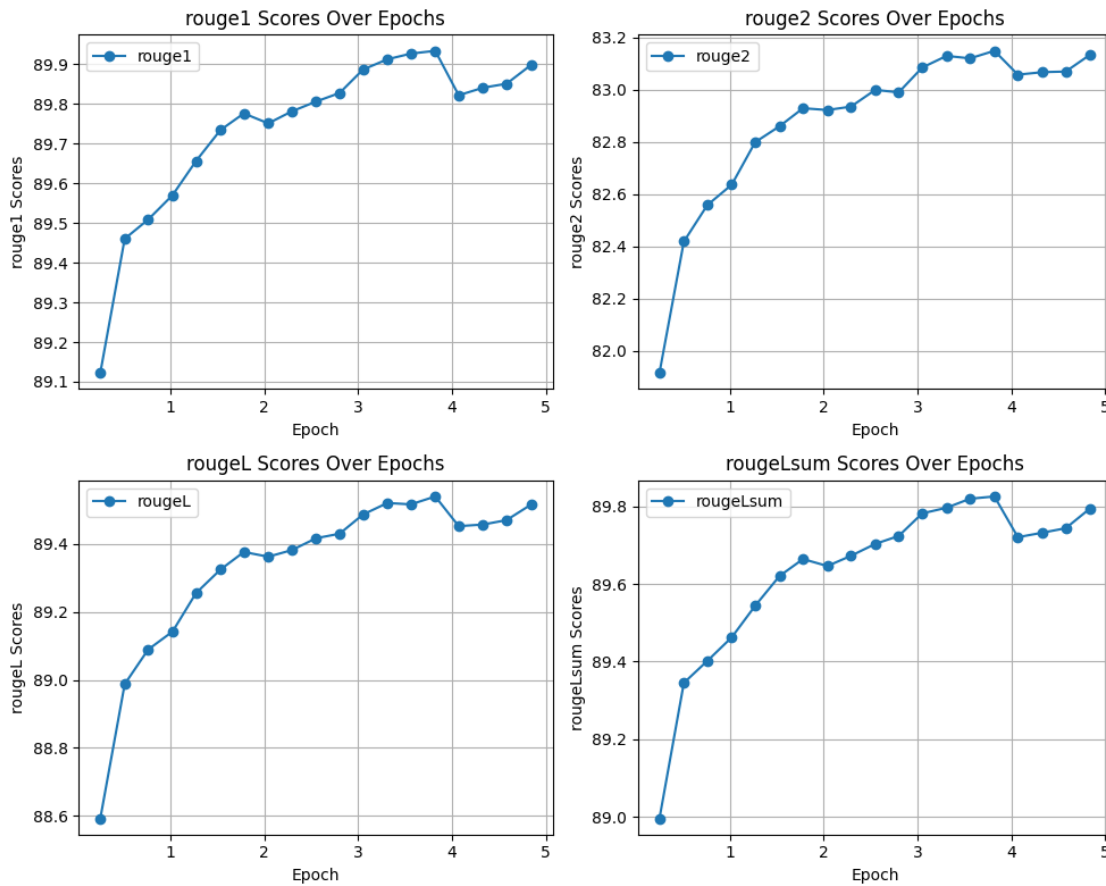
```
[5]: main("codellama_qlora_nf4_r32.log")
```

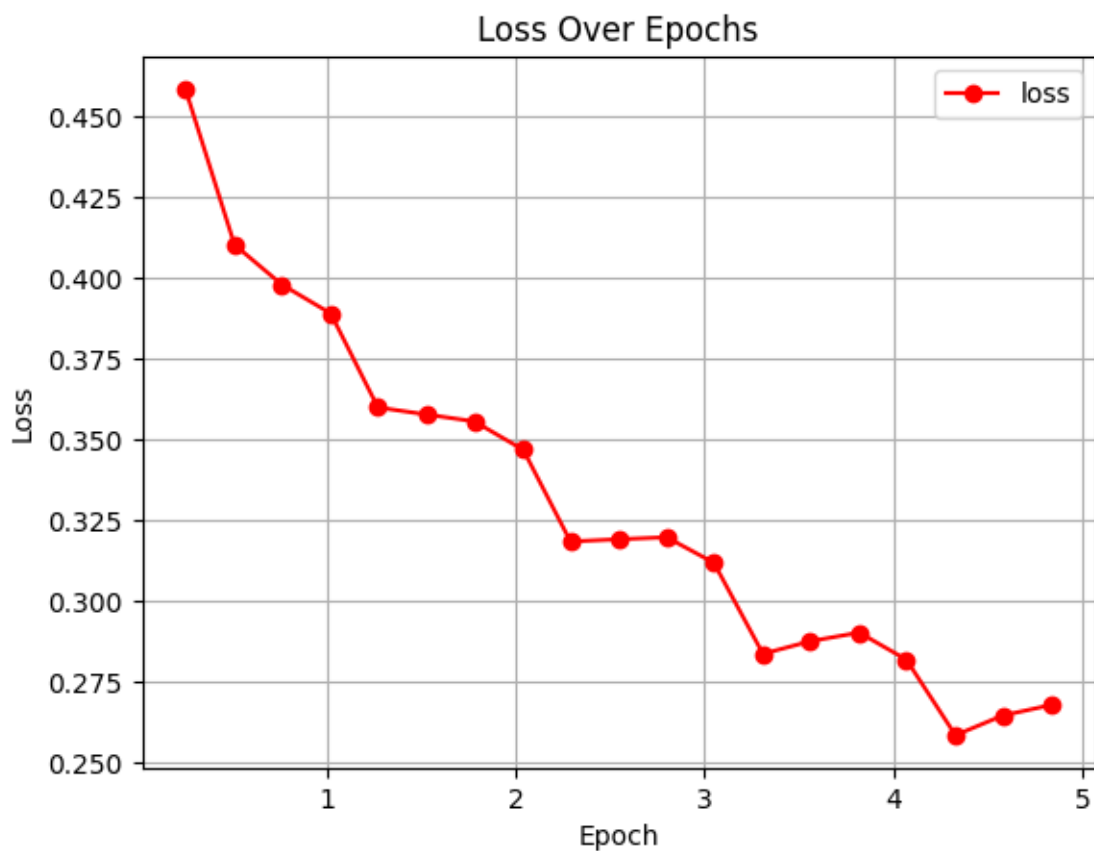
```
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12acaf670>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12adf7a90>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12abf6490>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae50ac0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12adf77c0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12adf7fa0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae02ac0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae02ee0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae02f10>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae026a0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae05df0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae05700>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae05d00>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12adf4ac0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12adf4ee0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
```

```

object at 0x12ae05490>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae05700>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae02a30>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ab2d580>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ac29280>
Problematic string: {A.dtype}

```





	epoch	rouge1	rouge2	rougeL	rougeLsum
0	0.25	89.1227	81.9169	88.5929	88.9955
1	0.51	89.4600	82.4191	88.9874	89.3453
2	0.76	89.5084	82.5585	89.0891	89.4019
3	1.02	89.5699	82.6366	89.1419	89.4627
4	1.27	89.6558	82.7993	89.2549	89.5442
5	1.53	89.7337	82.8603	89.3239	89.6211
6	1.78	89.7757	82.9293	89.3757	89.6647
7	2.04	89.7506	82.9224	89.3618	89.6467
8	2.29	89.7807	82.9353	89.3811	89.6730
9	2.55	89.8056	82.9995	89.4161	89.7038
10	2.80	89.8270	82.9898	89.4293	89.7243
11	3.05	89.8861	83.0848	89.4858	89.7825
12	3.31	89.9120	83.1295	89.5197	89.7971
13	3.56	89.9262	83.1201	89.5156	89.8204
14	3.82	89.9333	83.1490	89.5388	89.8262
15	4.07	89.8214	83.0577	89.4516	89.7211
16	4.33	89.8404	83.0673	89.4564	89.7327
17	4.58	89.8504	83.0696	89.4693	89.7443
18	4.84	89.8975	83.1342	89.5148	89.7954

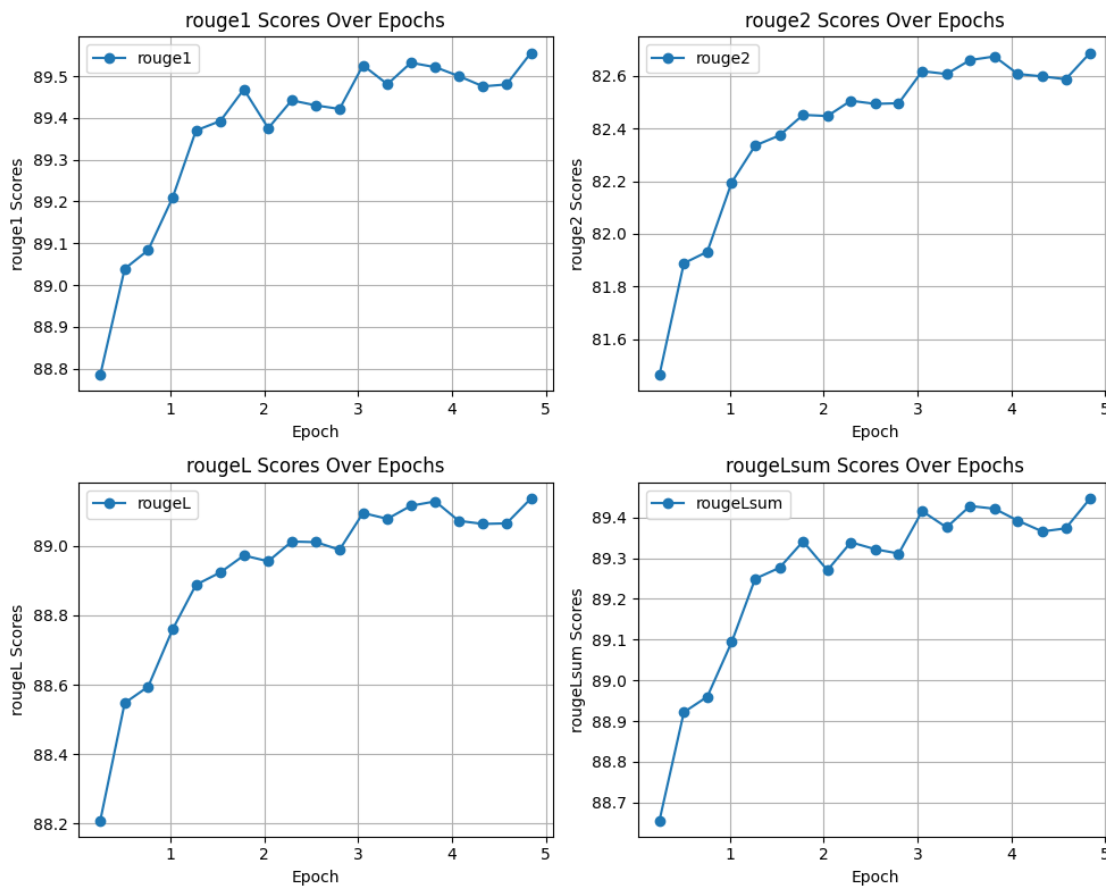
```
[6]: main("codellama_lora_int8_r1.log")
```

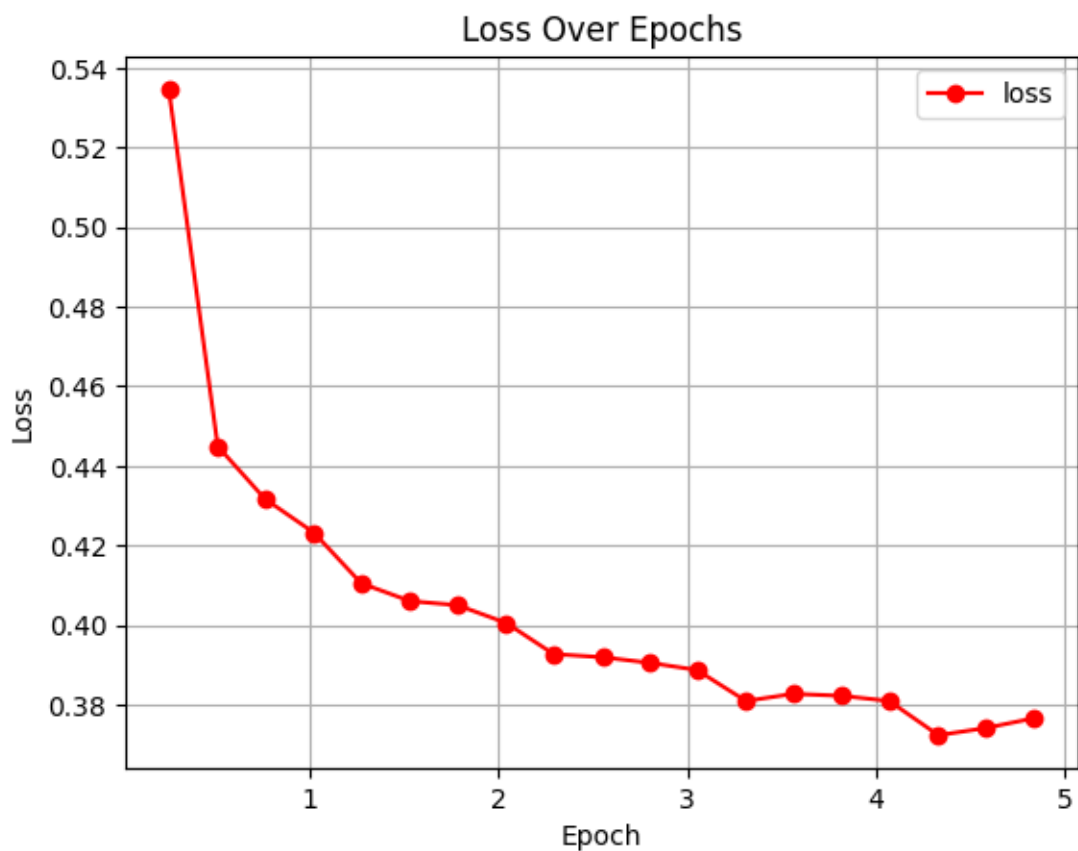
```
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12af87220>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12af93f70>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12af7f370>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afb1d90>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afc3d90>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afc3ee0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afc3f70>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afc53a0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afc5ee0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afc5970>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afc5220>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afcad90>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afcae0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afcaf70>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afcc190>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
```

```

object at 0x12afcaca0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afca580>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afc5be0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afca850>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12afc5a90>
Problematic string: {A.dtype}

```





	epoch	rouge1	rouge2	rougeL	rougeLsum
0	0.25	88.7852	81.4655	88.2083	88.6560
1	0.51	89.0389	81.8886	88.5472	88.9218
2	0.76	89.0835	81.9323	88.5943	88.9599
3	1.02	89.2089	82.1956	88.7593	89.0943
4	1.27	89.3699	82.3352	88.8884	89.2495
5	1.53	89.3928	82.3738	88.9241	89.2766
6	1.78	89.4686	82.4516	88.9729	89.3412
7	2.04	89.3754	82.4473	88.9561	89.2705
8	2.29	89.4421	82.5054	89.0131	89.3391
9	2.55	89.4299	82.4934	89.0113	89.3220
10	2.80	89.4215	82.4960	88.9893	89.3114
11	3.05	89.5260	82.6175	89.0954	89.4156
12	3.31	89.4807	82.6067	89.0786	89.3757
13	3.56	89.5321	82.6596	89.1163	89.4282
14	3.82	89.5216	82.6734	89.1290	89.4216
15	4.07	89.5003	82.6068	89.0729	89.3922
16	4.33	89.4755	82.5978	89.0639	89.3657
17	4.58	89.4802	82.5869	89.0656	89.3733
18	4.84	89.5559	82.6872	89.1374	89.4467

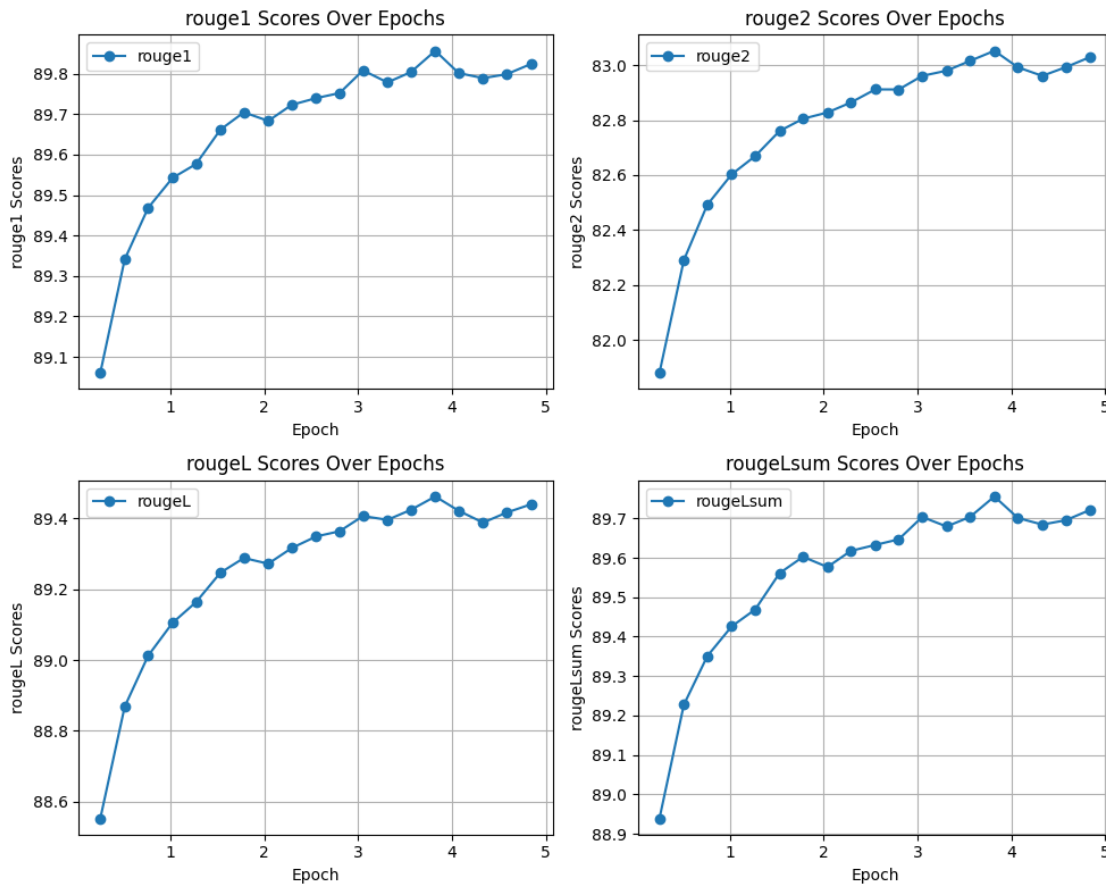
```
[7]: main("codellama_lora_int8_r8.log")
```

```
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0d0ac0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0d0850>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b1509d0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b12e9d0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b150d00>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0d0490>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b1370a0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b137b80>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b137040>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0c8be0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0c8550>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0c8b20>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0e4df0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0e40d0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0c82b0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
```

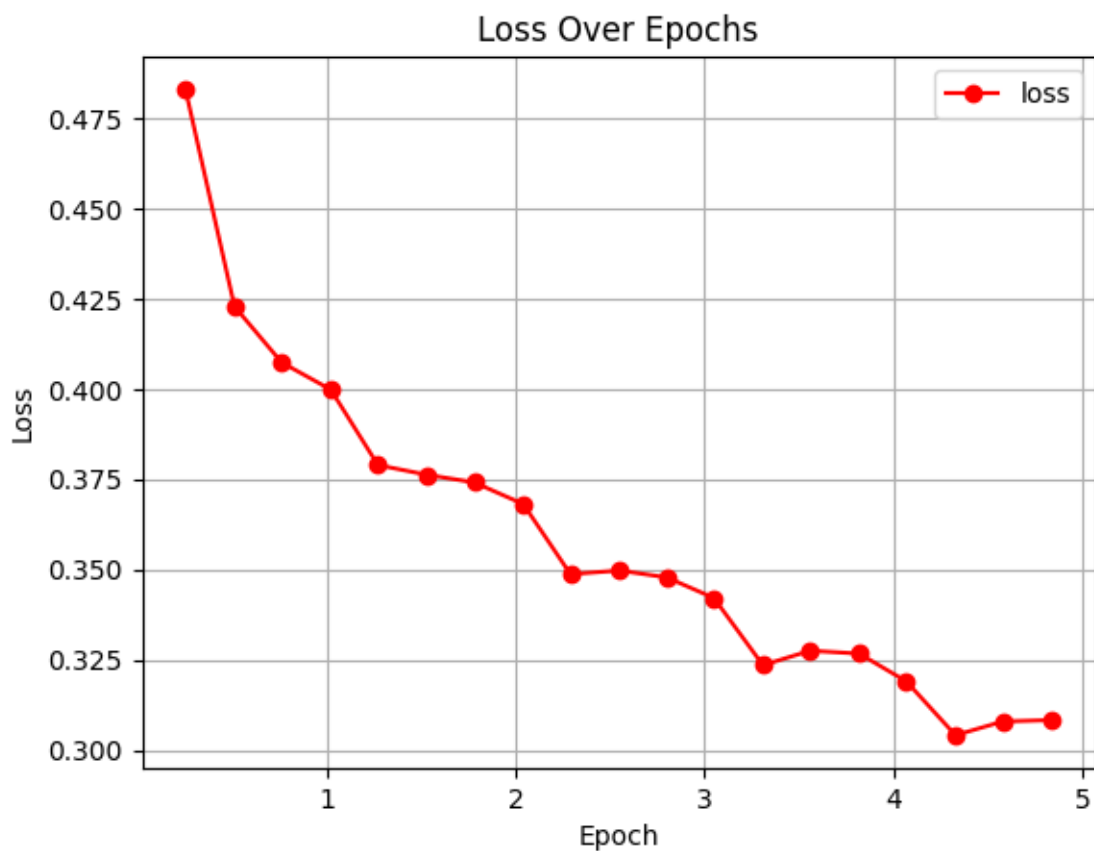
```

object at 0x12b137a90>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0c8b20>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b150130>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0c8460>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b137e50>
Problematic string: {A.dtype}

```







	epoch	rouge1	rouge2	rougeL	rougeLsum
0	0.25	89.0607	81.8808	88.5530	88.9392
1	0.51	89.3410	82.2909	88.8685	89.2276
2	0.76	89.4685	82.4923	89.0123	89.3508
3	1.02	89.5424	82.6029	89.1051	89.4262
4	1.27	89.5766	82.6692	89.1634	89.4689
5	1.53	89.6617	82.7605	89.2465	89.5610
6	1.78	89.7045	82.8050	89.2880	89.6025
7	2.04	89.6833	82.8278	89.2719	89.5767
8	2.29	89.7230	82.8642	89.3161	89.6175
9	2.55	89.7396	82.9119	89.3488	89.6326
10	2.80	89.7521	82.9116	89.3635	89.6468
11	3.05	89.8082	82.9610	89.4065	89.7036
12	3.31	89.7785	82.9800	89.3957	89.6794
13	3.56	89.8039	83.0156	89.4239	89.7036
14	3.82	89.8566	83.0523	89.4617	89.7555
15	4.07	89.8015	82.9923	89.4213	89.7009
16	4.33	89.7891	82.9611	89.3879	89.6843
17	4.58	89.7986	82.9926	89.4162	89.6952
18	4.84	89.8240	83.0296	89.4395	89.7214

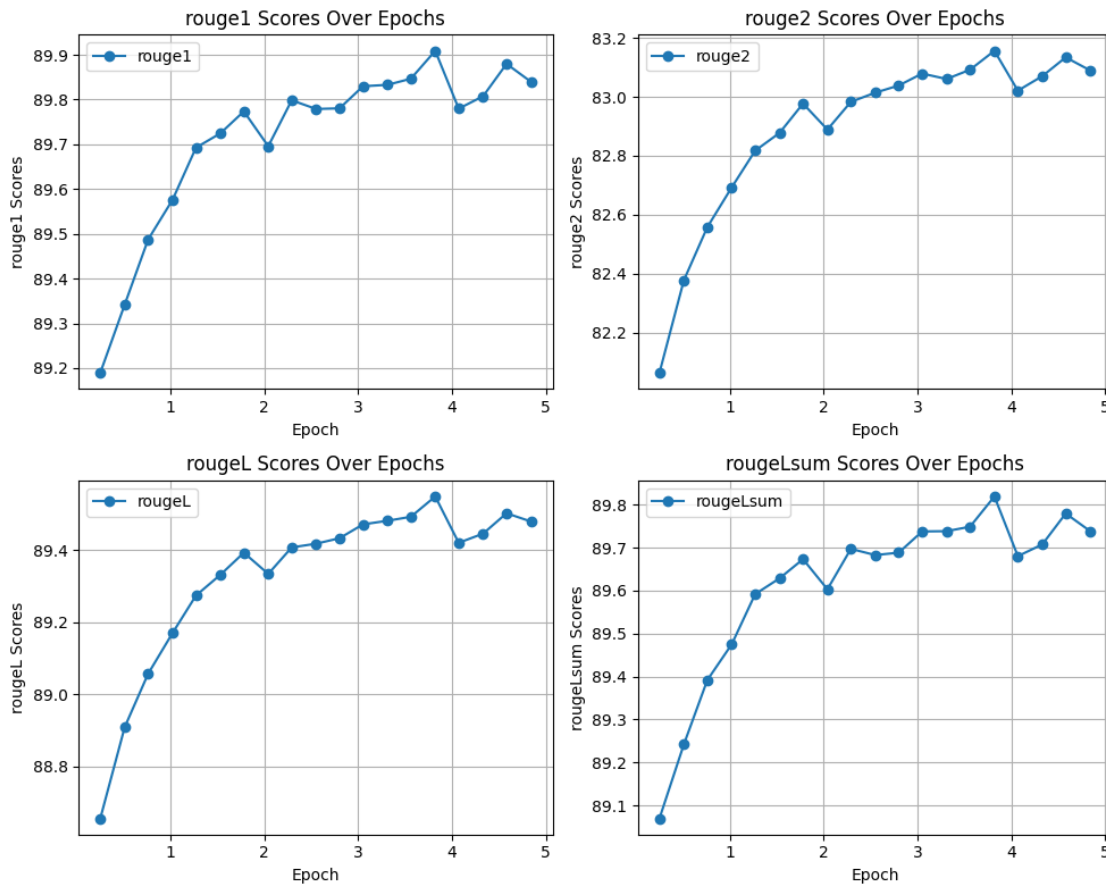
```
[8]: main("codellama_lora_int8_r16.log")
```

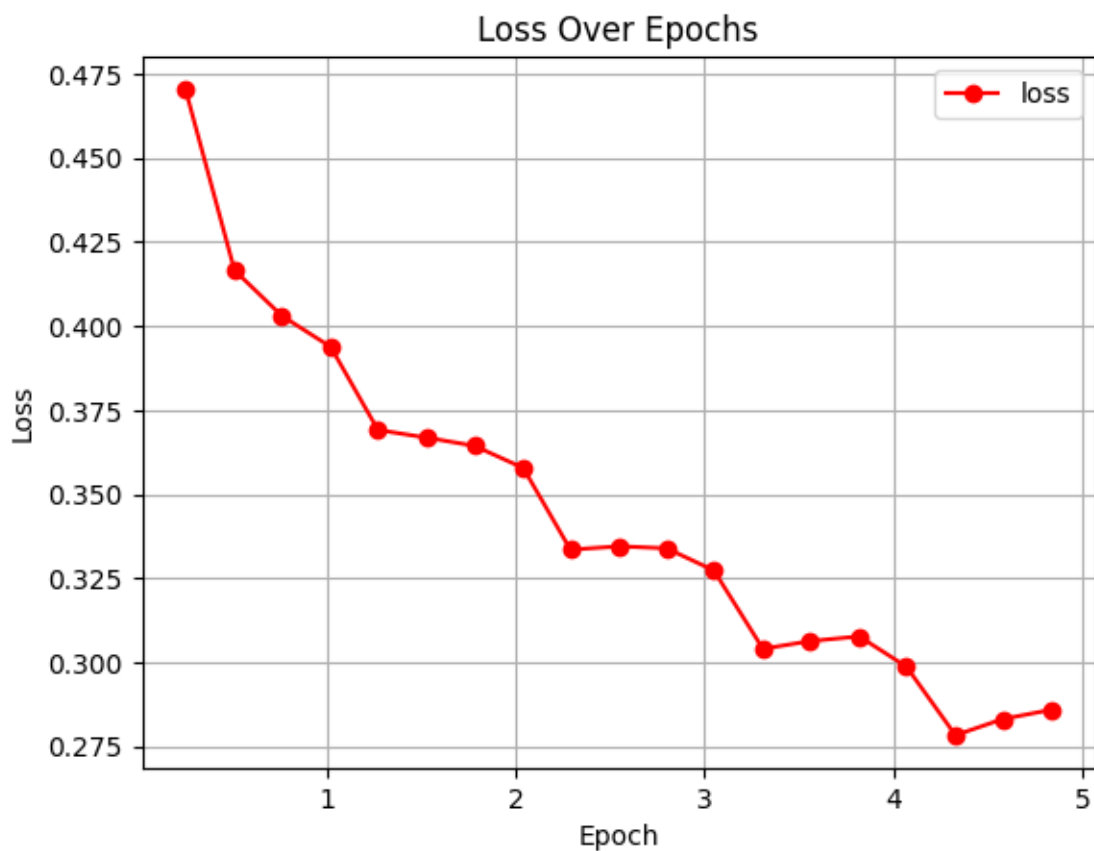
```
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12b0f3460>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae65a90>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae65c70>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae6c820>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aeaca00>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aeac0a0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aeac6d0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aed82e0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aed8220>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aed8370>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aed8a90>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae9e940>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae9edf0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae9e340>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae90e20>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
```

```

object at 0x12ae9efa0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae9ec40>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aed8400>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae9e220>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aed8a60>
Problematic string: {A.dtype}

```





	epoch	rouge1	rouge2	rougeL	rougeLsum
0	0.25	89.1895	82.0630	88.6557	89.0696
1	0.51	89.3419	82.3773	88.9087	89.2420
2	0.76	89.4875	82.5577	89.0568	89.3916
3	1.02	89.5761	82.6928	89.1696	89.4749
4	1.27	89.6927	82.8175	89.2736	89.5917
5	1.53	89.7247	82.8779	89.3310	89.6285
6	1.78	89.7737	82.9774	89.3922	89.6730
7	2.04	89.6958	82.8893	89.3334	89.6030
8	2.29	89.7985	82.9834	89.4068	89.6970
9	2.55	89.7791	83.0145	89.4171	89.6826
10	2.80	89.7805	83.0389	89.4323	89.6882
11	3.05	89.8299	83.0795	89.4707	89.7376
12	3.31	89.8330	83.0610	89.4806	89.7382
13	3.56	89.8467	83.0925	89.4917	89.7486
14	3.82	89.9091	83.1568	89.5480	89.8190
15	4.07	89.7798	83.0214	89.4196	89.6801
16	4.33	89.8076	83.0707	89.4450	89.7073
17	4.58	89.8799	83.1346	89.5015	89.7794
18	4.84	89.8399	83.0903	89.4786	89.7384

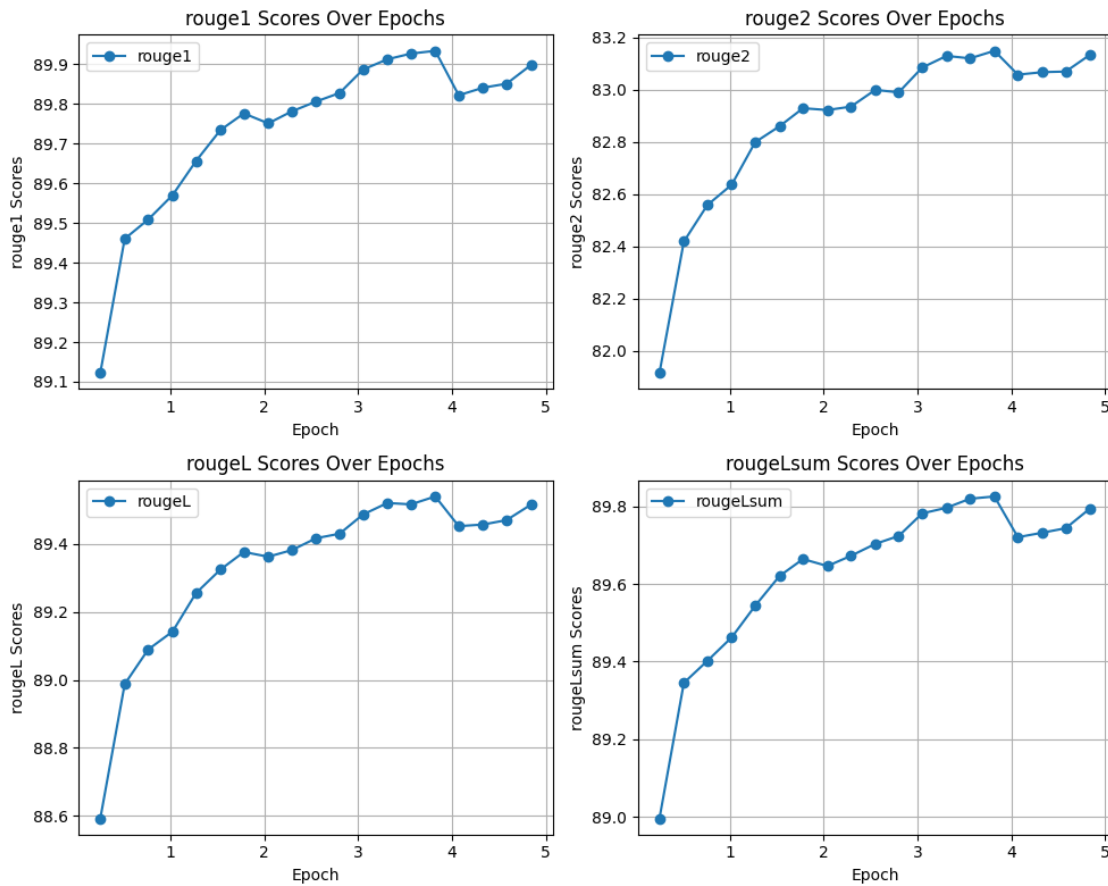
```
[9]: main("codellama_lora_int8_r32.log")
```

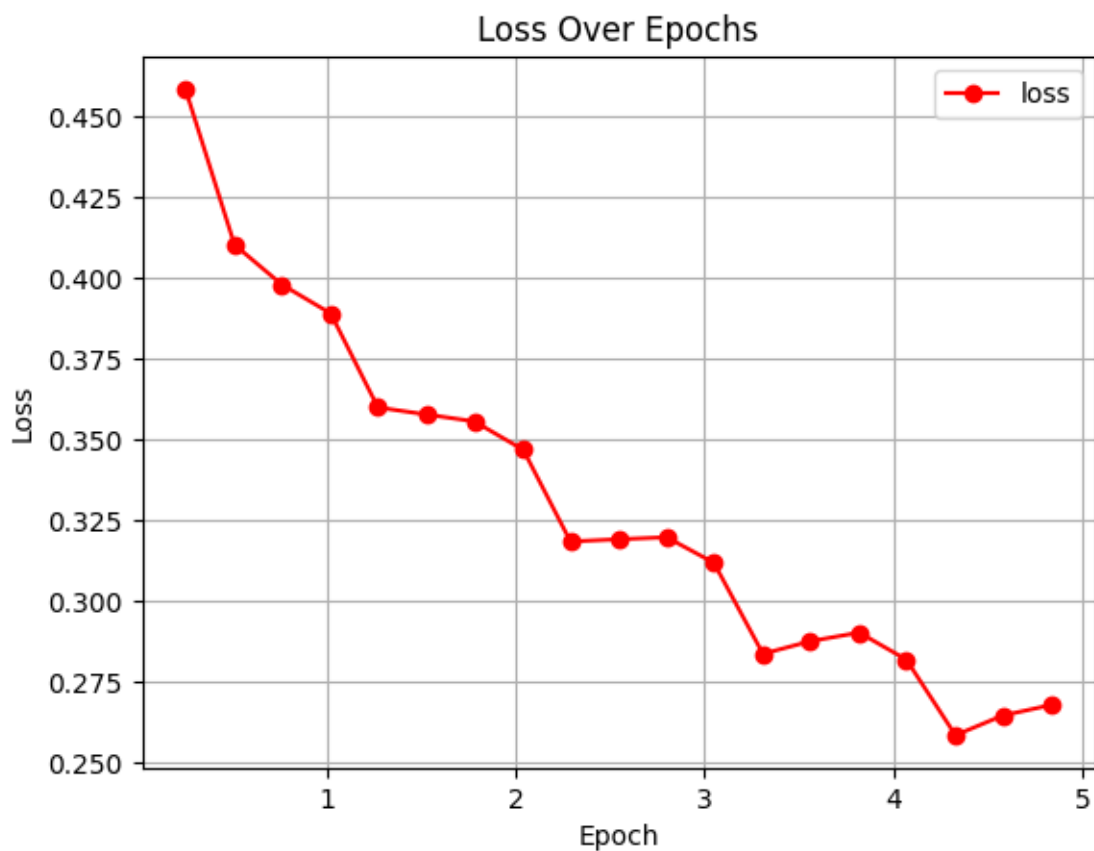
```
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aa87b20>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aa87f40>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ad89160>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae86790>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12abcf5e0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aa872b0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aaa09a0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aaa0ee0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aaa0970>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aaa02b0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aebd90>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aeb5b0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aeb1f0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aedb9a0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aedbee0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
```

```

object at 0x12aeb4c0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aebdf0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aaa06d0>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12aebef10>
Problematic string: {A.dtype}
Error evaluating JSON-like string: malformed node or string: <ast.Attribute
object at 0x12ae86820>
Problematic string: {A.dtype}

```





	epoch	rouge1	rouge2	rougeL	rougeLsum
0	0.25	89.1227	81.9169	88.5929	88.9955
1	0.51	89.4600	82.4191	88.9874	89.3453
2	0.76	89.5084	82.5585	89.0891	89.4019
3	1.02	89.5699	82.6366	89.1419	89.4627
4	1.27	89.6558	82.7993	89.2549	89.5442
5	1.53	89.7337	82.8603	89.3239	89.6211
6	1.78	89.7757	82.9293	89.3757	89.6647
7	2.04	89.7506	82.9224	89.3618	89.6467
8	2.29	89.7807	82.9353	89.3811	89.6730
9	2.55	89.8056	82.9995	89.4161	89.7038
10	2.80	89.8270	82.9898	89.4293	89.7243
11	3.05	89.8861	83.0848	89.4858	89.7825
12	3.31	89.9120	83.1295	89.5197	89.7971
13	3.56	89.9262	83.1201	89.5156	89.8204
14	3.82	89.9333	83.1490	89.5388	89.8262
15	4.07	89.8214	83.0577	89.4516	89.7211
16	4.33	89.8404	83.0673	89.4564	89.7327
17	4.58	89.8504	83.0696	89.4693	89.7443
18	4.84	89.8975	83.1342	89.5148	89.7954

[ ]: