Evaluation on the Test Set and Comparison to Baseline

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In [ ]: logging.set_verbosity_error()
        tat_summarizer = pipeline('summarization',
                                  model=new model,
                                  tokenizer=new tokenizer)
        #*p*#tat_sample_dialog_list = []
        prediction_tat_list = []
        reference_tat_list = []
        tat tic = timeit.default timer()
        for sample_num in range(len(dataset['test'])):
            this_sample = dataset['test'][sample_num]
            if do_have_lotta_output_from_all_dialogs_summaries:
                print("="*75)
                print(f"dialogue: \n{this_sample['dialogue']}\n----")
            ##endof: if do_have_lotta_output_from_all_dialogs_summaries
            ground_tat_summary = this_sample['summary']
            res_tat = summarizer(this_sample['dialogue'])
            res_tat_summary = res_tat[0]['summary_text']
            if do_have_lotta_output_from_all_dialogs_summaries:
                print("-"*70)
                print(f"human-genratd summary:\n{ground_tat_summary}")
                print("-"*70)
                print( "dwb-flan-t5-small-lora-finetune summary:" + \
                      f"\n{res tat summary}")
                print("-"*70)
            ##endof: if do_have_lotta_output_from_all_dialogs_summaries
            #*p*# tat sample dialog list.append(this sample)
            reference_tat_list.append(ground_tat_summary)
            prediction_tat_list.append(res_tat_summary)
        ##endof: for sample_num in range(len(dataset['test']))
        tat_toc = timeit.default_timer()
        tat_duration = tat_toc - tat_tic
        print( "Getting things ready for scoring (after training)")
        print(f"took {tat_toc - tat_tic:0.4f} seconds.")
        tat time str = format timespan(tat duration)
        print(f"which equates to {tat_time_str}")
        rouge = load_metric('rouge', trust_remote_code=True)
```

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In [65]: print_rouge_scores(results_tat, "TEST AFTER TRAINING")
```

```
----- ROUGE SCORES -----
  ----- TEST AFTER TRAINING -----
ROUGE-1 results
AggregateScore(
     low=Score(
          precision=0.18465960106995058,
          recall=0.5289884514472354,
          fmeasure=0.25686215590159345),
     mid=Score(
          precision=0.19191206582001252,
          recall=0.5419927875442789,
          fmeasure=0.26514311109911903),
     high=Score(
          precision=0.19892074709381968,
          recall=0.5560562002147722,
          fmeasure=0.273181138437335)
ROUGE-2 results
AggregateScore(
     low=Score(
          precision=0.05269906298279127,
          recall=0.15575094190620362,
          fmeasure=0.07409348910518994),
     mid=Score(
          precision=0.05716364568273007,
          recall=0.16594455254812504,
          fmeasure=0.0797410330836727),
     high=Score(
          precision=0.06147635605696184,
          recall=0.1761782280013389,
          fmeasure=0.08508543913464939)
ROUGE-L results
AggregateScore(
     low=Score(
          precision=0.1358391419777274,
          recall=0.38856823315589245,
          fmeasure=0.18868402958397204),
     mid=Score(
          precision=0.1413916125834373,
          recall=0.39950997023341217,
          fmeasure=0.19515605909360623),
     high=Score(
          precision=0.14730026614718988,
          recall=0.4117337256634965,
          fmeasure=0.20223694130284198)
ROUGE-Lsum results
AggregateScore(
     low=Score(
          precision=0.13581244201168188,
          recall=0.38871271829792664,
          fmeasure=0.1886832040731757),
          precision=0.14133285520379574,
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recall=0.3998294223955289,
fmeasure=0.1950362847385175),
high=Score(
precision=0.147008914964092,
recall=0.4109702578189206,
fmeasure=0.20206485129716942)
```