```
!pip install -q google-generativeai evaluate rouge score --no-deps
import google.generativeai as genai
import json
from tqdm import tqdm
import evaluate
import pandas as pd
from google.colab import files
uploaded = files.upload()
file name = list(uploaded.keys())[0]
\rightarrow
     عدد الملفات: ٢ اختيار الملفات
     • cleaned data.json(application/json) - 166260 bytes, last modified: 24100% - 2025/4/ done
     • colab_gpu_limited_100 1 .json(application/json) - 166490 bytes, last modified: 24100% - 2025/4/ done
     Saving cleaned_data.json to cleaned_data (1).json
     Saving colab_gpu_limited_100 1 .json to colab_gpu_limited_100 1 (1).json
with open(file_name, "r") as f:
    data = json.load(f)
api_key = "
genai.configure(api_key=api_key)
model = genai.GenerativeModel("gemini-1.5-flash")
bleu_metric = evaluate.load("bleu")
rouge_metric = evaluate.load("rouge")
prompt_templates = [
    lambda q: f"You are a kind assistant. Please provide an empathetic answer to: {q}",
    lambda q: f"As a licensed therapist, give a supportive response to this: {q}",
```

```
lambda q: f"You are a thoughtful AI trained on mental health conversations. The user says: {q}\nRespond:"
]
results = []
for i, prompt func in enumerate(prompt templates):
    print(f"Evaluating with Prompt Style {i+1}...")
    predictions, references = [], []
    for sample in tqdm(data):
        question = sample["question"]
        expected_answer = sample["answer"]
        prompt = prompt_func(question)
        try:
            response = model.generate_content(prompt)
            prediction = response.text.strip()
        except:
            prediction = ""
        if prediction:
            predictions.append(prediction)
            references.append([expected answer])
    formatted predictions = [' '.join(p.split()) for p in predictions]
    formatted_references = [[' '.join(r[0].split())] for r in references]
    if formatted_predictions:
        bleu_score = bleu_metric.compute(predictions=formatted_predictions, references=formatted_references)
    else:
        bleu_score = {"bleu": 0.0}
    rouge_score = rouge_metric.compute(
        predictions=formatted_predictions,
        references=formatted_references,
        rouge_types=["rouge1", "rouge2", "rougeL"]
    )
```

```
results.append({
    "prompt_style": i + 1,
    "BLEU": bleu_score["bleu"],
    "ROUGE-1": rouge_score["rouge1"],
    "ROUGE-2": rouge_score["rouge2"],
    "ROUGE-L": rouge_score["rougeL"]
})
```

```
Evaluating with Prompt Style 1...
 15%
                 15/100 [00:39<03:49,
                                       2.70s/it]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                 16/100 [00:39<02:52,
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                  18/100 [00:40<01:46, 1.30s/it]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                                       1.93it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                                        2.02it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  73/100 [01:53<00:25,
                                       1.08it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                                       1.56it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                                       1.96it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                                        2.05it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                                        1.46s/it]
Evaluating with Prompt Style 2...
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                                        1.58it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                                        1.75it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
                                       1.80it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                                        1.85it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                                        1.93it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                                       1.93it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                                       1.93it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                                        2.03it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                                        2.07it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
                  28/100 [00:32<00:34,
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                                       2.10it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                                       2.02it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                  49/100 [01:18<01:37, 1.90s/it]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                                       1.20s/it|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                                        1.44s/it|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  29/100 [01:00<01:17, 1.09s/it]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                 30/100 [01:00<01:05, 1.07it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                 31/100 [01:01<00:55.
                                       1.23it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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 32%
                  32/100 [01:01<00:48, 1.40it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  33/100 [01:02<00:43, 1.53it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  34/100 [01:03<00:40, 1.63it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
                                       1.72it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                 35/100 [01:03<00:37,
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                  37/100 [01:04<00:33, 1.91it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  38/100 [01:04<00:31, 1.97it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                | 56/100 [01:53<01:56, 2.66s/it]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                  57/100 [01:54<01:26, 2.02s/it]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  58/100 [01:54<01:05.
                                        1.55s/it]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                                       1.06s/it]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
                 60/100 [01:55<00:42.
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                                       1.09it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
                 61/100 [01:56<00:35,
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                  62/100 [01:56<00:30,
                                        1.24it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  63/100 [01:57<00:27,
                                        1.35it/slWARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                 65/100 [01:58<00:24.
                                       1.40it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                 66/100 [01:59<00:22.
                                       1.51it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                  67/100 [01:59<00:20,
                                        1.58it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  68/100 [02:00<00:20,
                                        1.59it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  69/100 [02:01<00:19,
                                        1.60it/slWARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                 70/100 [02:01<00:17,
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                 71/100 [02:02<00:16,
                                       1.74it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                                        1.71it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
                  72/100 [02:02<00:16,
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                                        1.77it/s]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  74/100 [02:03<00:15,
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                 75/100 [02:04<00:14,
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                  92/100 [02:54<00:23,
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                  94/100 [02:58<00:15,
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                 95/100 [02:58<00:09,
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                                       1.51s/it]WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:generat
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                                        1.21s/it|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  98/100 [03:00<00:02,
                                        1.03s/it|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
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                  99/100 [03:01<00:00,
                                        1.14it/s|WARNING:tornado.access:429 POST /v1beta/models/gemini-1.5-flash:genera
                                        4 00-/:17
                 100/100 [03.01.00.00
```

```
df = pd.DataFrame(results)
print(df)
df
```

```
prompt_style BLEU ROUGE-1 ROUGE-2 ROUGE-L
0 1 0.050438 0.396956 0.100900 0.188519
1 2 0.064564 0.417648 0.114968 0.191397
```