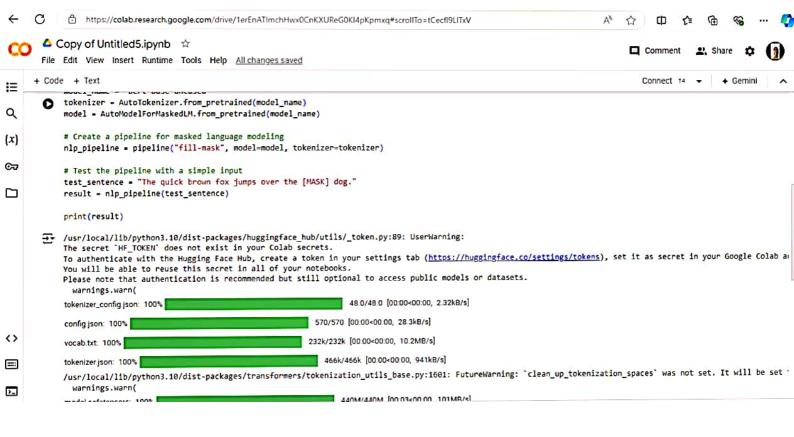
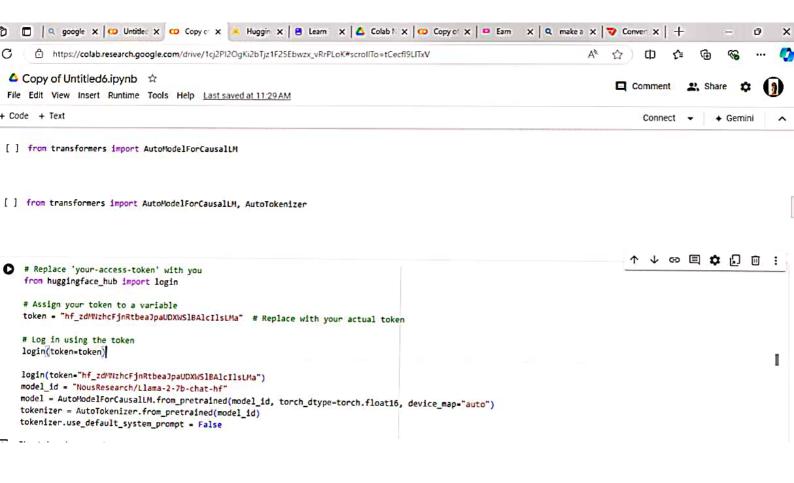


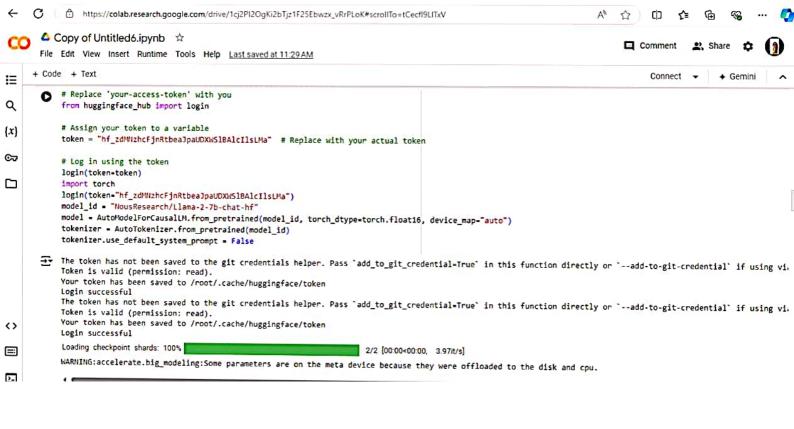


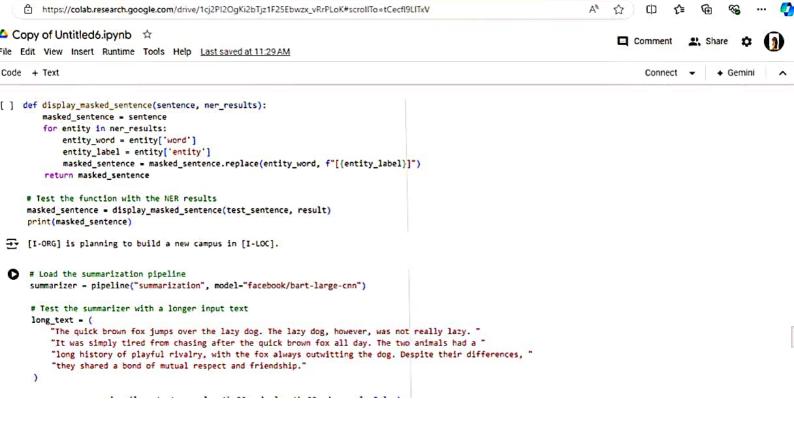
pip install accelerate protobuf sentencepiece torch

```
Requirement already satisfied: accelerate in /usr/local/lib/python3.10/dist-packages (0.34.2)
     Requirement already satisfied: protobuf in /usr/local/lib/python3.10/dist-packages (3.20.3)
     Requirement already satisfied: sentencepiece in /usr/local/lib/python3.10/dist-packages (0.1.99)
    Requirement already satisfied: torch in /usr/local/lib/python3.10/dist-packages (2.4.1scu121)
Requirement already satisfied: numpy<3.0.0,>=1.17 in /usr/local/lib/python3.10/dist-packages (from accelerate) (1.26.4)
    Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.10/dist-packages (from accelerate) (24.1)
    Requirement already satisfied: psutil in /usr/local/lib/python3.10/dist-packages (from accelerate) (5.9.5)
    Requirement already satisfied: pyyaml in /usr/local/lib/python3.10/dist-packages (from accelerate) (6.0.2)
   Requirement already satisfied: huggingface-hub>=0.21.0 in /usr/local/lib/python3.10/dist-packages (from accelerate) (0.24.7)
   Requirement already satisfied: safetensors>=0.4.3 in /usr/local/lib/python3.10/dist-packages (from accelerate) (0.4.5)
   Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from torch) (3.16.1)
   Requirement already satisfied: typing-extensions>=4.8.0 in /usr/local/lib/python3.10/dist-packages (from torch) (4.12.2)
   Requirement already satisfied: sympy in /usr/local/lib/python3.10/dist-packages (from torch) (1.13.2)
  Requirement already satisfied: networkx in /usr/local/lib/python3.10/dist-packages (from torch) (3.3)
  Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages (from torch) (3.1.4)
  Requirement already satisfied: fsspec in /usr/local/lib/python3.10/dist-packages (from torch) (2024.6.1)
  Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from huggingface-hub>=0.21.0->accelerate) (2.32.3)
 Requirement already satisfied: tqdm>=4.42.1 in /usr/local/lib/python3.10/dist-packages (from huggingface-hub)=0.21.0->accelerate) (4.66.5)
 Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist-packages (from jinja2->torch) (2.1.5)
Requirement already satisfied: mpmath<1.4,>=1.1.0 in /usr/local/lib/python3.10/dist-packages (from sympy->torch) (1.3.0)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests->huggingface-hub>=0.21.0->accelerate) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests->huggingface-hub>=0.21.0->accelerate) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests->huggingface-hub>=0.21.0->accelerate) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests->huggingface-hub>=0.21.0->accelerate) (2024.8.30)
```









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```
..... Mucolokenizer, pipeline
                 # Load a pre-trained NER model
\{x\}
                 model_name = "dbmdz/bert-large-cased-finetuned-conll03-english"
                 tokenizer = AutoTokenizer.from_pretrained(model_name)
⊙ಾ
                 model = AutoModelForTokenClassification.from_pretrained(model_name)
                 # Create an NER pipeline
ner_pipeline = pipeline("ner", model=model, tokenizer=tokenizer)
                 # Test the NER pipeline with a sample sentence
                 test_sentence = "Apple is planning to build a new campus in Austin."
                 result = ner_pipeline(test_sentence)
                 print(result)
           tokenizer_config json: 100%
                                                                                                  60.0/60.0 [00:00<00:00, 3.16kB/s]
                                                                                         998/998 [00:00<00:00, 56.2kB/s]
                 config json: 100%
                                                                                    213k/213k [00:00<00:00, 4,06MB/s]
                 vocab.txt: 100%
                 /usr/local/lib/python3.10/dist-packages/transformers/tokenization_utils_base.py:1617: FutureWarning: `clean_up_tokenization_spaces` was not set. It will be set.
<>
                   warnings.warn(
                                                                                      1.33G/1.33G [00:14<00:00, 149MB/s]
                Some weights of the model checkpoint at dbmdz/bert-large-cased-finetuned-conll03-english were not used when initializing BertForTokenClassification: ['bert.pool - This IS expected if you are initializing BertForTokenClassification from the checkpoint of a model trained on another task or with another architecture (e.g.: - This IS NOT expected if you are initializing BertForTokenClassification from the checkpoint of a model that you expect to be exactly identical (initializing a
>_
```