



# Text Summerization Using T5 Transformer

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Draft Session (9m)

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```
import torch
import json
from transformers import T5Tokenizer, T5ForConditionalGeneration, T5Config

model = T5ForConditionalGeneration.from_pretrained('t5-large')
tokenizer = T5Tokenizer.from_pretrained('t5-large')
device = torch.device('cpu')

text = """
Ensuring Cambodia has supplies and access to COVID-19 tools.
"As long as the virus continues to circulate anywhere, no country and no one is safe, including in Cambodia," said Dr. Li. "We must continue to
"""

preprocess_text = text.strip().replace("\n", "")
t5_prepared_Text = "summarize: "+preprocess_text
print ("original text preprocessed: \n", preprocess_text)

tokenized_text = tokenizer.encode(t5_prepared_Text, return_tensors="pt").to(device)

# summarize
summary_ids = model.generate(tokenized_text,
                             num_beams=4,
                             no_repeat_ngram_size=2,
                             min_length=30,
                             max_length=100,
                             early_stopping=True)

output = tokenizer.decode(summary_ids[0], skip_special_tokens=True)
print ("\n\nSummarized text: \n",output)
```

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```
original text preprocessed:
Ensuring Cambodia has supplies and access to COVID-19 tools."As long as the virus continues to circulate anywhere, no country and no one is safe, includ
ing in Cambodia," said Dr. Li. "We must continue to detect, test, isolate and care for patients, and trace and quarantine their contacts-and to do this w
e must have sufficient diagnostics, PPE, and medical equipment." Beyond procuring supplies, WHO and the UN system are also strengthening the global suppl
y chain. On 24 April, WHO launched the Access to COVID-19 Tools (ACT) Accelerator, which is a global collaboration to accelerate development, production
and equitable access to COVID-19 tests, treatments and vaccines. In addition to accelerating research and ensuring manufacturing capacity for COVID-19 va
ccines, WHO has supported the Royal Government of Cambodia to strengthen its regulatory capacity, draft a COVID-19 National Deployment and Vaccination Pl
an (NDVP) and assess immunization supply chain management"
```

```
Summarized text:
WHO and the UN system are also strengthening the global supply chain. access to COVID-19 tools (ACT) accelerator is a global collaboration to accelerate
development, production and equitable access for tests, treatments and vaccines.
```

+ Code

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Console