

```
!pip install transformers
```

```
Requirement already satisfied: transformers in
/usr/local/lib/python3.10/dist-packages (4.46.2)
Requirement already satisfied: filelock in
/usr/local/lib/python3.10/dist-packages (from transformers) (3.16.1)
Requirement already satisfied: huggingface-hub<1.0,>=0.23.2 in
/usr/local/lib/python3.10/dist-packages (from transformers) (0.26.2)
Requirement already satisfied: numpy>=1.17 in
/usr/local/lib/python3.10/dist-packages (from transformers) (1.26.4)
Requirement already satisfied: packaging>=20.0 in
/usr/local/lib/python3.10/dist-packages (from transformers) (24.2)
Requirement already satisfied: pyyaml>=5.1 in
/usr/local/lib/python3.10/dist-packages (from transformers) (6.0.2)
Requirement already satisfied: regex!=2019.12.17 in
/usr/local/lib/python3.10/dist-packages (from transformers)
(2024.9.11)
Requirement already satisfied: requests in
/usr/local/lib/python3.10/dist-packages (from transformers) (2.32.3)
Requirement already satisfied: safetensors>=0.4.1 in
/usr/local/lib/python3.10/dist-packages (from transformers) (0.4.5)
Requirement already satisfied: tokenizers<0.21,>=0.20 in
/usr/local/lib/python3.10/dist-packages (from transformers) (0.20.3)
Requirement already satisfied: tqdm>=4.27 in
/usr/local/lib/python3.10/dist-packages (from transformers) (4.66.6)
Requirement already satisfied: fsspec>=2023.5.0 in
/usr/local/lib/python3.10/dist-packages (from huggingface-
hub<1.0,>=0.23.2->transformers) (2024.10.0)
Requirement already satisfied: typing-extensions>=3.7.4.3 in
/usr/local/lib/python3.10/dist-packages (from huggingface-
hub<1.0,>=0.23.2->transformers) (4.12.2)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.10/dist-packages (from requests->transformers)
(3.4.0)
Requirement already satisfied: idna<4,>=2.5 in
/usr/local/lib/python3.10/dist-packages (from requests->transformers)
(3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.10/dist-packages (from requests->transformers)
(2.2.3)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.10/dist-packages (from requests->transformers)
(2024.8.30)
```

```
from transformers import BartTokenizer, BartForConditionalGeneration
```

```
tokenizer = BartTokenizer.from_pretrained('facebook/bart-large-cnn')
model = BartForConditionalGeneration.from_pretrained('facebook/bart-
large-cnn')
```

```

ARTICLE_TO_SUMMARIZE="The economy of Maharashtra is the largest in India, with a gross state domestic product (GSDP) of ₹42.5 trillion (US$510 billion) and GSDP per capita of ₹335,247 (US$4,000);[9] it is the single-largest contributor to India's economy, being accountable for 14% of all-India nominal GDP.[22][23][24] The service sector dominates the state's economy, accounting for 69.3% of the value of the output of the country. Although agriculture accounts for 12% of the state GDP, it employs nearly half the population of the state."
input=tokenizer([ARTICLE_TO_SUMMARIZE],return_tensors='pt')
summary_ids=model.generate(input['input_ids'],max_length=100,early_stopping=False)
print([tokenizer.decode(g,skip_special_tokens=True) for g in summary_ids])

```

```

/usr/local/lib/python3.10/dist-packages/huggingface_hub/utils/_auth.py:94: UserWarning:
The secret `HF_TOKEN` does not exist in your Colab secrets.
To authenticate with the Hugging Face Hub, create a token in your settings tab (https://huggingface.co/settings/tokens), set it as secret in your Google Colab and restart your session.
You will be able to reuse this secret in all of your notebooks.
Please note that authentication is recommended but still optional to access public models or datasets.
  warnings.warn(

```

```

{"model_id":"42b4b58910564ee2b8773677792282f2","version_major":2,"version_minor":0}

```

```

{"model_id":"a933d44846f346eca733ec6a8ea7c812","version_major":2,"version_minor":0}

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```

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{"model_id":"564409adac23480a898bf0859ddc0cdf","version_major":2,"version_minor":0}

```

```

["The economy of Maharashtra is the largest in India, with a gross state domestic product (GSDP) of ₹42.5 trillion (US$510 billion) It is the single-largest contributor to India's economy, being accountable for 14% of all-India nominal GDP. The service sector dominates the state's economy. Although agriculture accounts for 12% of the state GDP, it employs nearly half the population."]

```