

ASSIGNMENT -3 : HUGGING FACE EXPLORATION

1. Environment Setup

```
python -m venv hf_env
```

```
# Activate it
```

```
# Windows:
```

```
hf_env\Scripts\activate
```

```
# Install required libraries
```

```
pip install transformers torch
```

2. Python Script



The screenshot shows a Google Colab notebook interface. The browser address bar displays the URL: `colab.research.google.com/drive/1skQ2u8ZT59S7BzEWwzZYK6GupHazv1vm`. The notebook is titled "Untitled1.ipynb". The menu bar includes "File", "Edit", "View", "Insert", "Runtime", "Tools", and "Help". Below the menu bar, there are tabs for "Commands", "+ Code", "+ Text", and a "Run all" button. The code editor contains the following Python script:

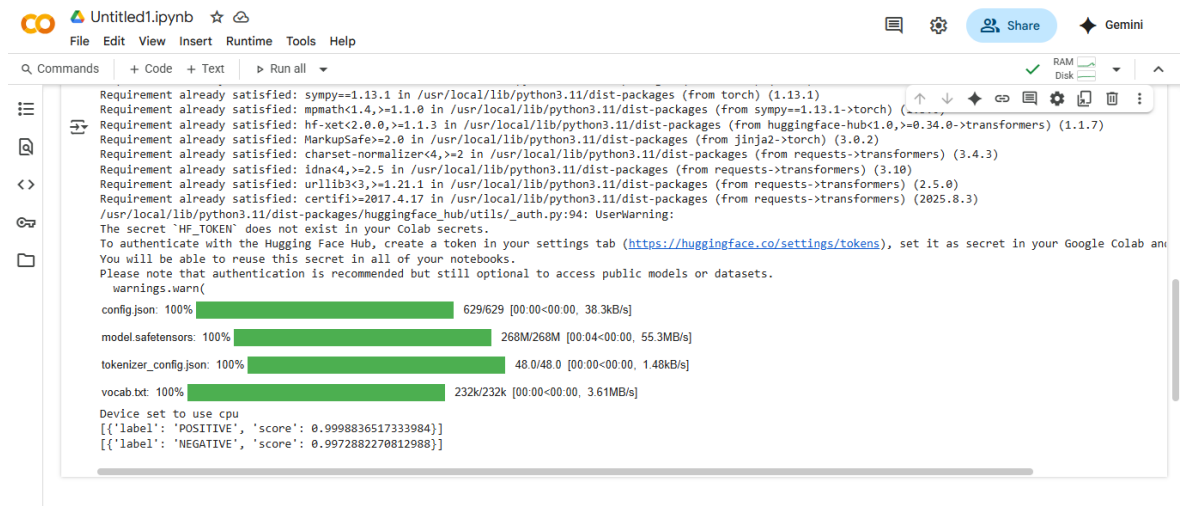
```
!pip install transformers torch
from transformers import pipeline

# Load sentiment analysis model
classifier = pipeline("sentiment-analysis", model="distilbert-base-uncased-finetuned-sst-2-english")

# Test examples
print(classifier("I love using Hugging Face models, they are amazing!"))
print(classifier("I hate waiting in long lines!"))
```

On the right side of the code editor, there are icons for undo, redo, and a settings gear. In the top right corner, there is a "Share" button and a status indicator showing "RAM" and "Disk" usage.

3. Sample output from text test:



```
Requirement already satisfied: sympy==1.13.1 in /usr/local/lib/python3.11/dist-packages (from torch) (1.13.1)
Requirement already satisfied: mpmath<1.4,>=1.1.0 in /usr/local/lib/python3.11/dist-packages (from sympy==1.13.1->torch) (1.3.0)
Requirement already satisfied: hf-xet<2.0.0,>=1.1.3 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub<1.0,>=0.34.0->transformers) (1.1.7)
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.11/dist-packages (from Jinja2->torch) (3.0.2)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (from requests->transformers) (3.4.3)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-packages (from requests->transformers) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests->transformers) (2.5.0)
Requirement already satisfied: certifi<=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests->transformers) (2025.8.3)
/usr/local/lib/python3.11/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
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(
config.json: 100% ██████████ 629/629 [00:00<00:00, 38.3kB/s]
model.safetensors: 100% ██████████ 268M/268M [00:04<00:00, 55.3MB/s]
tokenizer_config.json: 100% ██████████ 48.0/48.0 [00:00<00:00, 1.48kB/s]
vocab.txt: 100% ██████████ 232k/232k [00:00<00:00, 3.61MB/s]
Device set to use cpu
[{'label': 'POSITIVE', 'score': 0.9998836517333984}]
[{'label': 'NEGATIVE', 'score': 0.9972882270812988}]
```