```
Requirement already satisfied: sentence-transformers in /usr/local/lib/python3.12/dist-packages (5.1.1)
Collecting faiss-cpu
 Downloading faiss cpu-1.12.0-cp312-cp312-manylinux 2 27 x86 64.manylinux 2 28 x86 64.whl.metadata (5.1 kB)
Collecting PvPDF2
 Downloading pypdf2-3.0.1-py3-none-any.whl.metadata (6.8 kB)
Requirement already satisfied: transformers in /usr/local/lib/python3.12/dist-packages (4.57.0)
Requirement already satisfied: torch in /usr/local/lib/python3.12/dist-packages (2.8.0+cu126)
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Requirement already satisfied: filelock in /usr/local/lib/python3.12/dist-packages (from transformers) (3.20.0)
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Requirement already satisfied: regex!=2019.12.17 in /usr/local/lib/python3.12/dist-packages (from transformers) (2024.11.6)
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Requirement already satisfied: tokenizers<=0.23.0,>=0.22.0 in /usr/local/lib/python3.12/dist-packages (from transformers) (0.22.1)
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Requirement already satisfied: hf-xet<2.0.0,>=1.1.3 in /usr/local/lib/python3.12/dist-packages (from huggingface-hub>=0.20.0->sentence-t
Requirement already satisfied: mpmath<1.4,>=1.1.0 in /usr/local/lib/python3.12/dist-packages (from sympy>=1.13.3->torch) (1.3.0)
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Requirement already satisfied: charset normalizer<4,>=2 in /usr/local/lib/python3.12/dist-packages (from requests->transformers) (3.4.3)
```

Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

Saving resume\_k.\_kundana (1).pdf to resume\_k.\_kundana (1).pdf

print('Uploaded file:', filename)

```
def chunk_text(text, chunk_size=500, overlap=50):
    words = text.split()
    chunks = []
    for i in range(0, len(words), chunk_size - overlap):
        chunks = ".join(words[i:i + chunk_size])
        chunks.append(chunk)
    return chunks

all_chunks = []
    for doc in documents:
        all_chunks.extend(chunk_text(doc))

print(f"Total chunks: {len(all_chunks)}")
Total chunks: 1
```

```
from sentence_transformers import SentenceTransformer
model = SentenceTransformer('all-MiniLM-L6-v2')
embeddings = model.encode(all_chunks, show_progress_bar=True)
```

/usr/local/lib/python3.12/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 (<a href="https://huggingface.co/settings/tokens">https://huggingface.co/settings/tokens</a>), set it as secre 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( modules.json: 100% 349/349 [00:00<00:00, 17.4kB/s] config sentence transformers.json: 100% 116/116 [00:00<00:00, 7.96kB/s] README.md: 10.5k/? [00:00<00:00, 569kB/s] sentence bert config.json: 100% 53.0/53.0 [00:00<00:00, 2.72kB/s] config.json: 100% 612/612 [00:00<00:00, 40.1kB/s] model.safetensors: 100% 90.9M/90.9M [00:01<00:00, 75.4MB/s] tokenizer config.json: 100% 350/350 [00:00<00:00, 16.5kB/s] vocab.txt: 232k/? [00:00<00:00, 6.23MB/s] tokenizer.json: 466k/? [00:00<00:00, 5.74MB/s] special tokens map.json: 100% 112/112 [00:00<00:00, 1.88kB/s] config.json: 100% 190/190 [00:00<00:00, 4.63kB/s] Batches: 100% 1/1 [00:00<00:00, 2.12it/s] import faiss import numpy as np dimension = embeddings.shape[1] index = faiss.IndexFlatL2(dimension) index.add(np.array(embeddings)) print(f"FAISS index has {index.ntotal} vectors")

def search(query, k=5):
 query\_vec = model.encode([query])
 distances, indices = index.search(np.array(query\_vec), k)
 return [all\_chunks[i] for i in indices[0]]

FAISS index has 1 vectors

```
from transformers import pipeline
qa model = pipeline("text2text-generation", model="google/flan-t5-small")
context = " ".join(search(query))
prompt = f"Using these documents, answer the question: {query}\nContext: {context}\nAnswer:"
answer = ga model(prompt, max length=200)[0]['generated text']
print("Answer:", answer)
config.json:
               1.40k/? [00:00<00:00, 19.9kB/s]
model.safetensors: 100%
                                                                  308M/308M [00:08<00:00, 48.9MB/s]
generation config.json: 100%
                                                                      147/147 [00:00<00:00, 1.69kB/s]
tokenizer config.json:
                       2.54k/? [00:00<00:00, 89.1kB/s]
spiece.model: 100%
                                                              792k/792k [00:00<00:00, 951kB/s]
```

tokenizer.json: 2.42M/? [00:00<00:00, 7.73MB/s]

special tokens map.json: 2.20k/? [00:00<00:00, 29.9kB/s]

Device set to use cpu

Token indices sequence length is longer than the specified maximum sequence length for this model (3655 > 512). Running this sequence the Both `max\_new\_tokens` (=256) and `max\_length` (=200) seem to have been set. `max\_new\_tokens` will take precedence. Please refer to the doc Answer: K. Kundana Responsive Designs & ML Projects 9391454194 <a href="kundanasri2004@gmail.com">kundanasri2004@gmail.com</a> LinkedIn GitHub SUMMARY Developed multiple acader

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