

```

1)
import gensim.downloader as api
from gensim.models import KeyedVectors

print("Loading the model, please wait...")
model = api.load('glove-wiki-gigaword-50')
print("Model loaded successfully!")

word_vector = model['king']
print(f"\nVector for 'king':\n{word_vector}")

result = model.most_similar(positive=['king', 'woman'], negative=['man'], topn=1)
print(f"\n'king' - 'man' + 'woman' ≈ {result[0][0]} with similarity score {result[0][1]:.2f}")

similarity = model.similarity('king', 'queen')
print(f"\nSimilarity between 'king' and 'queen': {similarity:.2f}")

odd_one = model.doesnt_match(['breakfast', 'lunch', 'dinner', 'car'])
print(f"\nOdd one out: {odd_one}")

```

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8)
!pip install --quiet langchain cohere langchain-community
from google.colab import files
import os
from langchain.llms import Cohere
from langchain.prompts import PromptTemplate
from langchain.chains import LLMChain
print("Please upload your text file now:")
uploaded = files.upload()

if not uploaded:
    raise ValueError("No file uploaded. Please upload a valid text file to proceed.")

file_name = next(iter(uploaded))
print(f"Loaded file: {file_name}")
with open(file_name, "r", encoding="utf-8") as f:
    document_text = f.read()

print(f"File size: {len(document_text)} characters\n")
os.environ["COHERE_API_KEY"] = "DAyg7xKxV86iT3o4dljlt8PNSR8K4TQhDWHoyeTN"
template = """
You are an AI assistant trained to summarize documents.

```

Based on the text below, generate the output in this format:

```

Title: [Auto-generate a meaningful title]
Key Points:
- Point 1
- Point 2
- Point 3

```

Summary:

- Bullet 1
- Bullet 2
- Bullet 3
- Bullet 4
- Bullet 5

Document:

```
{doc}
"""
```

```
prompt = PromptTemplate(input_variables=["doc"], template=template)
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```
llm = Cohere(model="command")
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```
chain = LLMChain(llm=llm, prompt=prompt)
```

```
response = chain.run(doc=document_text)
```

```
print("🧠 Generated Output:\n")
```

```
print(response)
```