

# 1. Progression of prompts

- Search without providing context:

```
In [5]: test_word = "شَهِيدٌ"  
  
In [6]: prompt = f"""  
Your task is to search for the following word in the Holy Quran: {test_word}  
"""
```

```
In [7]: response = get_completion(prompt)  
print(response)
```

The word "شَهِيدٌ" appears in the Holy Quran 33 times.

```
In [8]: test_word = "صَدْقَةٌ"
```

```
In [9]: prompt = f"""  
Your task is to search for the following word in the Holy Quran: {test_word}  
"""
```

```
In [10]: response = get_completion(prompt)  
print(response)
```

The word "صَدْقَةٌ" appears multiple times in the Holy Quran. It is derived from the Arabic root word "صدق" which means truthfulness or sincerity. The word "صَدْقَةٌ" is often translated as charity or alms-giving.

Here are a few examples of where the word "صَدْقَةٌ" appears in the Quran:

وَأَبِيزُوا الصَّلَاةَ وَأَثُوا الرِّكَعَةَ وَمَا تَقْرُبُوا لِأَنْفُسِكُمْ مِنْ خَيْرٍ تَجِدُوهُ عِنْ دِينِ اللَّهِ إِنَّ اللَّهَ بِمَا تَعْمَلُونَ بَصِيرٌ" (سورة البقرة، الآية 110) 1.

Translation: "And establish prayer and give zakah, and whatever good you put forward for yourselves – you will find it with Allah. Indeed, Allah of what you do, is Seeing."

In this verse, the word "صَدْقَةٌ" is translated as "zakah" which refers to the obligatory charity that Muslims are required to give.

وَمَا تُنْفِقُوا مِنْ خَيْرٍ فَإِنَّهُمْ مُمْلَكُوهُ إِنَّمَا تُنْفِقُونَ إِلَّا لِتَبْغَاهُ وَجْهُ اللَّهِ وَمَا تَنْفِقُوا مِنْ خَيْرٍ يُرَبَّ إِلَّا أُتُورُوكُمْ وَآتَئُمُ لَا ظُلْمُونَ" (سورة البقرة، الآية 272) 2.

Translation: "And whatever you spend of good – it is for yourselves, and you do not spend except seeking the countenance of Allah. And whatever you spend of good, it will be fully repaid to you, and you will not be wronged."

In this verse, the word "صَدْقَةٌ" is translated as "good" and emphasizes the importance of giving in the way of Allah.

إِنَّ الصُّدُقَاتَ لِفَقَرَاءِ وَالْمَسَاكِينِ وَالْغَارِمِينَ عَلَيْهَا وَالْمَؤْلَفَةُ قُلُوبُهُمْ وَفِي الرَّقَابِ وَالْغَارِمِينَ ذَفِقُ شَرِيلُ اللَّهِ وَابْنِ السُّبْلِ فَرِيشَةُ مِنَ اللَّهِ وَاللَّهُ عَلِيمٌ حَكِيمٌ" (سورة التوبه، الآية 60) 3.

Translation: "Zakah expenditures are only for the poor and for the needy and for those employed to collect [zakah] and for bringing hearts together [for Islam] and for freeing captives [or slaves] and for those in debt and for the cause of Allah and for the [stranded] traveler – an obligation [imposed] by Allah. And Allah is Knowing and Wise."

In this verse, the word "صَدَقَاتٍ" is translated as "zakah expenditures" and lists the different categories of people who are eligible to receive charity.

```
In [8]: test_word = "صَدَقَاتٍ"
```

```
In [11]: prompt = f"""  
Your task is to search for a word in the Holy Quran.  
The word is placed between angle brackets.  
For each occurrence you find list the the verse in Arabic, with the verse number and chapter name.
```

```
The word:  
<{test_word}>  
"""
```

```
In [12]: response = get_completion(prompt)  
print(response)
```

I'm sorry, as an AI language model, I cannot browse the internet or access external resources.

- Basic prompt with context (one verse)

```
verse = f"""
تُبَرِّوْنَهَا بَيْنَكُمْ فَلَيْسَ عَلَيْكُمْ جَنَاحٌ أَلَا تَكْتُبُوهَا * وَأَشْهُدُوا إِذَا تَبَعَّنُمْ * وَلَا يُضَارُ كَاتِبٌ وَلَا شَهِيدٌ * وَإِنْ تَقْتُلُوا فَاهِهَرَ فُسُوقٌ بِكُمْ * وَاتَّقُوا اللَّهُ * وَيَعْلَمُكُمُ اللَّهُ وَاللَّهُ بِكُلِّ شَهْوَةٍ عَلَيْهِ
"""

In [14]: test_word = "الله"

In [15]: prompt = f"""
Your task is to search for a word in a verse of the Holy Quran.
The verse is placed in triple dashes and the word is placed between angle brackets.
For each occurrence you find list the the verse in Arabic, with the verse number and chapter name.

The verse:
---{verse}---
The word:
<{test_word}>
"""

In [16]: response = get_completion(prompt)
print(response)

Verse 2, Chapter 282 (Al-Baqarah):
فَلَيْكُنْ وَلِمُطَلِّبِ الْدِيَارِ تَلِيهِ الْحَقُّ وَلَيْتَ اللَّهُ رَبِّي

Verse 4, Chapter 5 (Al-Ma''idah):
وَلَا يَأْبُ كَاتِبٌ أَنْ يَكْتُبْ كَمَا عَلِمَ اللَّهُ

Verse 89, Chapter 4 (An-Nisa):
وَاسْتَشْهِدُوا شَهِيدَيْنِ مِنْ رُجُلَيْكُمْ فَإِنْ لَمْ يَكُونَا رِجَلَيْنِ فَرَجُلٌ وَامْرَأَتَانِ مِنْ تَوْصِيْنِ مِنَ الشُّهَدَاءِ أَنْ تَخْلُلْ إِحْسَنَهَا فَتَدْكُرْ إِحْسَنَهَا الْآخَرِيِّ وَلَا يَأْبُ الشَّهِيدَةِ إِذَا مَا دُعِيَ وَلَا سُمِّوَا أَنْ تَكْتُبُوهُ صَفِيفًا أَوْ كَبِيرًا إِلَى أَخْيَلِهِ ذَلِكُمُ أَفْسَطَ عِنْدَ اللَّهِ وَأَفْعَمَ بِالشَّهِيدَةِ وَأَدَنَى أَلَا تَرْتَابُوا
"""


```

```
In [13]: verse = f"""
تُبَرِّوْنَهَا بَيْنَكُمْ فَلَيْسَ عَلَيْكُمْ جَنَاحٌ أَلَا تَكْتُبُوهَا * وَأَشْهُدُوا إِذَا تَبَعَّنُمْ * وَلَا يُضَارُ كَاتِبٌ وَلَا شَهِيدٌ * وَإِنْ تَقْتُلُوا فَاهِهَرَ فُسُوقٌ بِكُمْ * وَاتَّقُوا اللَّهُ * وَيَعْلَمُكُمُ اللَّهُ وَاللَّهُ بِكُلِّ شَهْوَةٍ عَلَيْهِ
"""

In [14]: test_word = "الله"

In [17]: prompt = f"""
Your task is to search for a word in a verse of the Holy Quran.
The verse is placed in triple dashes and the word is placed between angle brackets.
For each occurrence you find list the shortest sentence containing the word.
Finally, display the number of occurrences.

The verse:
---{verse}---
The word:
<{test_word}>
"""

In [18]: response = get_completion(prompt)
print(response)

Shortest sentences containing < الله >:
- فَلَيْكُنْ وَلَيْتَ اللَّهُ
- كَمَا عَلِمَ اللَّهُ
- وَلَا يَأْبُ الشَّهِيدَةِ إِذَا مَا دُعِيَ
- وَلَيَقُولَ اللَّهُ
- وَيَعْلَمُكُمُ اللَّهُ

Number of occurrences: 5

```

```
In [13]: verse = f"""\nثَبِرُوْنَاهَا بَيْنَكُمْ فَلَيْسَ عَلَيْكُمْ جُنَاحٌ أَلَا تَكْتُبُوهَا * وَأَشْهُدُوْا إِذَا تَبَيَّنُوهَا * وَلَا يُضَارُ كَاتِبٌ وَلَا شَهِيدٌ * وَإِنْ تَعْلَمُوا فَإِنَّهُ مُسْوَقٌ بِكُمْ * وَأَتَقُوا اللَّهَ * وَيَعْلَمُكُمُ اللَّهُ * وَاللَّهُ بِكُلِّ شَهِيدٍ عَلَيْهِ\n.....\n\nIn [14]: test_word = "الله"\n\nIn [19]: prompt = f"""\nYour task is to search for a word in a verse of the Holy Quran.\nThe verse is placed in triple dashes and the word is placed between angle brackets.\nFor each occurrence you find, list the sentence containing the word.\nFinally, display the number of occurrences.\n\nThe verse:\n---{verse}---\n\nThe word:\n<{test_word}>\n.....\n\nIn [20]: response = get_completion(prompt)\nprint(response)\n\nSentence 1: فَلَيْكُنْ تَفْتَلْلَ الَّذِي عَلَيْهِ الْحُقْقُ تَلْتَوْ اللَّهُ رَبُّ\nSentence 2: فَإِنْ كَانَ الَّذِي عَلَيْهِ الْحُقْقُ سَفِيهًا أَوْ ضَعِيفًا أَوْ لَا يُسْتَطِيعُ أَنْ يُبَيِّنَ هُوَ فَلَيْمَلِلْ بِلَهُ بِالْوَلِلْ * وَاسْتَشْهِدُوْا شَهِيدِيْنَ مِنْ رَجُلِكُمْ، فَإِنْ لَمْ يَكُنُوا جَنِينَ قَرْبُلْ وَأَمْرُ\nاثَانِ مِنْ تَرَصُّدِيْنَ مِنَ الشَّهِيْدَاءِ أَنْ تَخْلُلْ إِحْدَاهُمَا أَلْخَرِيْ\nSentence 3: وَأَتَقُوا اللَّهَ * وَيَعْلَمُكُمُ اللَّهُ * وَاللَّهُ بِكُلِّ شَهِيدٍ عَلَيْهِ\nNumber of occurrences: 3
```

- A whole chapter (Surah) as context, with verse numbers:
- Exact match:

## Quran Search

```
In [5]: chapter = f"""\n1 قُلْ أَعُوذُ بِرَبِّ النَّاسِ\n2 مَكْلُوكَ النَّاسِ\n3 إِلَهَ النَّاسِ\n4 مِنْ شَرِّ الْوَسْوَاسِ الْخَنَاسِ\n5 الَّذِي يُوَسْوِسُ فِي صُدُورِ النَّاسِ\n6 مِنَ الْجِنَّةِ وَالنَّاسِ\n.....\n\nkeyword = "الناس"\n\nprompt = f"""\n- Your task is to search for a keyword in a chapter text of the Holy Quran.\n- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.\n- The chapter text is organized as follows:\n    - Each verse in the chapter is in a separate line\n    - Each verse is preceded with the verse number and followed by a new line character\n\n- For each occurrence you find, display the verse with its number.\nFinally, display the number of occurrences.\n\nThe chapter text:\n---{chapter}---\n\nThe keyword:\n<{keyword}>\n.....\n\nIn [6]: response = get_completion(prompt)\nprint(response)\n\nOccurrences found:\nVerse 1: قُلْ أَعُوذُ بِرَبِّ <الناس>\nVerse 2: مَكْلُوكَ <الناس>\nVerse 3: إِلَهَ <الناس>\nVerse 5: الَّذِي يُوَسْوِسُ فِي صُدُورِ <الناس>\n\nNumber of occurrences: 4
```

## Quran Search

```
In [17]: chapter = f"""
1 قُلْ أَعُوذُ بِرَبِّ النَّاسِ
2 مَالِكِ النَّاسِ
3 إِلَهِ النَّاسِ
4 مِنْ شَرِّ الْوَسْوَاسِ الْخَنَّاسِ
5 الَّذِي يُوَسْوِسُ فِي صُدُورِ النَّاسِ
6 مِنَ الْجِنَّةِ وَالنَّاسِ
"""

keyword = "إِلَهٌ"

prompt = f"""
- Your task is to search for a keyword in a chapter text of the Holy Quran.
- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.
- The keyword match doesn't need to be exact; it could be a partial match.
- The chapter text is organized as follows:
    - Each verse in the chapter is in a separate line
    - Each verse is preceded with the verse number

- For each occurrence you find, display the verse with its number.
- Finally, display the number of occurrences.

The chapter text:
---{chapter}---
The keyword:
<{keyword}>
"""

In [18]: response = get_completion(prompt)
print(response)
```

Occurrences found:  
3 إِلَهِ النَّاسِ

Number of occurrences:  
1

## B. Partial Match:

### Quran Search

```
In [11]: chapter = f"""
1 قُلْ أَعُوذُ بِرَبِّ النَّاسِ
2 مَالِكِ النَّاسِ
3 إِلَهِ النَّاسِ
4 مِنْ شَرِّ الْوَسْوَاسِ الْخَنَّاسِ
5 الَّذِي يُوَسْوِسُ فِي صُدُورِ النَّاسِ
6 مِنَ الْجِنَّةِ وَالنَّاسِ
"""

keyword = "النَّاسُ"

prompt = f"""
- Your task is to search for a keyword in a chapter text of the Holy Quran.
- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.
- The keyword match doesn't need to be exact; it could be a partial match.
- The chapter text is organized as follows:
    - Each verse in the chapter is in a separate line
    - Each verse is preceded with the verse number

- For each occurrence you find, display the verse with its number.
- Finally, display the number of occurrences.

The chapter text:
---{chapter}---
The keyword:
<{keyword}>
"""

In [12]: response = get_completion(prompt)
print(response)
```

Occurrences found:  
1 <قُلْ أَعُوذُ بِرَبِّ <النَّاسِ>  
2 <مَالِكِ <النَّاسِ>  
3 <إِلَهِ <النَّاسِ>  
5 <الَّذِي يُوَسْوِسُ فِي <صُدُورِ <النَّاسِ>  
6 <مِنَ الْجِنَّةِ &<النَّاسِ>

Number of occurrences found: 5

## 2. Semantic Search

- Still syntactic:

### Quran Search Using GPT

```
In [11]: chapter = f"""
1 قُلْ أَعُوذُ بِرَبِّ النَّاسِ
2 مَلِكِ النَّاسِ
3 إِلَهِ النَّاسِ
4 مِنْ شَرِّ الْوَسْوَاسِ الْخَنَّاسِ
5 الَّذِي يُوَسْوِسُ فِي صُدُورِ النَّاسِ
6 مِنَ الْجِنَّةِ وَالنَّاسِ
"""

keyword = "يوسوس"

prompt = f"""
- Your task is to search for a keyword in a chapter text of the Holy Quran.
- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.
- The keyword match doesn't need to be exact; it could be a partial match.
- The keyword match doesn't need to be syntactic; it could be semantic.
- The chapter text is organized as follows:
    - Each verse in the chapter is in a separate line
    - Each verse is preceded with the verse number

- For each occurrence you find, display the verse with its number.
- Finally, display the number of occurrences.

The chapter text:
---{chapter}---
The keyword:
<{keyword}>
"""

In [12]: response = get_completion(prompt)
print(response)

Occurrences found:
الَّذِي يُوَسْوِسُ فِي صُدُورِ النَّاسِ 5

Number of occurrences: 1
```

### Quran Search Using GPT

```
In [13]: chapter = f"""
1 قُلْ أَعُوذُ بِرَبِّ النَّاسِ
2 مَلِكِ النَّاسِ
3 إِلَهِ النَّاسِ
4 مِنْ شَرِّ الْوَسْوَاسِ الْخَنَّاسِ
5 الَّذِي يُوَسْوِسُ فِي صُدُورِ النَّاسِ
6 مِنَ الْجِنَّةِ وَالنَّاسِ
"""

keyword = "الْوَسْوَاس"

prompt = f"""
- Your task is to search for a keyword in a chapter text of the Holy Quran.
- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.
- The keyword match doesn't need to be exact; it could be a partial match.
- The keyword match doesn't need to be syntactic; it could be semantic.
- The chapter text is organized as follows:
    - Each verse in the chapter is in a separate line
    - Each verse is preceded with the verse number

- For each occurrence you find, display the verse with its number.
- Finally, display the number of occurrences.

The chapter text:
---{chapter}---
The keyword:
<{keyword}>
"""

In [14]: response = get_completion(prompt)
print(response)

Occurrences found:
مِنْ شَرِّ الْوَسْوَاسِ الْخَنَّاسِ 4

Number of occurrences: 1
```

## Quran Search Using GPT

```
In [17]: chapter = f"""\n    قُلْ أَعُوذُ بِرَبِّ النَّاسِ|\n    1| مَلِكِ النَّاسِ|\n    2| إِلَهِ النَّاسِ|\n    3| مِنْ شَرِّ الْوَسْوَاسِ الْخَنَّاسِ|\n    4| أَلَّا يُوسُفُ فِي ضَيْقٍ النَّاسِ|\n    5| مِنَ الْجَنَّةِ وَالنَّاسِ|\n    6| ***|\n\nkeyword = "الْوَسْوَاسِ"\n\nprompt = f"""\n- Your task is to search for a keyword in a chapter text of the Holy Quran.\n- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.\n- The keyword match doesn't need to be exact; it could be a partial match.\n- Perform the search semantically.\n- The chapter text is organized as follows:\n    - Each verse in the chapter is in a separate line\n    - Each verse is preceded with the verse number\n\n- For each occurrence you find, display the verse with its number.\n- Finally, display the number of occurrences.\n\nThe chapter text:\n---{chapter}---\nThe keyword:\n<{keyword}>\n***
```

```
In [18]: response = get_completion(prompt)\nprint(response)
```

Occurrences found:  
4 من شَرِّ الْوَسْوَاسِ الْخَنَّاسِ|

Number of occurrences found: 1

Detects only one semantically similar word:

### Quran Search Using GPT

```
In [15]: chapter = f"""  
    قُلْ أَعُوذُ بِرَبِّ النَّاسِ |  
1|  
    مَلِكِ النَّاسِ |  
2|  
    إِلَهِ النَّاسِ |  
3|  
4| من شَرِّ الْوَسْوَاسِ الْخَنَّاسِ |  
الَّذِي يُؤْسِفُ فِي صُدُورِ النَّاسِ |  
5| من الْجِنَّةِ وَالنَّاسِ |  
6|  
|||||  
  
keyword = "وسواس"  
  
prompt = f"""\n- Your task is to search for a keyword in a chapter text of the Holy Quran.  
- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.  
- The keyword match doesn't need to be exact; it could be a partial match.  
- Perform the search semantically.  
- The chapter text is organized as follows:  
    - Each verse in the chapter is in a separate line  
    - Each verse is preceded with the verse number  
  
- For each occurrence you find, display the verse with its number.  
- Finally, display the number of occurrences.  
  
The chapter text:  
---{chapter}---  
The keyword:  
<{keyword}>  
|||||  
  
In [16]: response = get_completion(prompt)  
print(response)  
  
Occurrences found:  
5| الَّذِي يُؤْسِفُ فِي صُدُورِ النَّاسِ |  
  
Number of occurrences found: 1
```

### Quran Search Using GPT

```
In [19]: chapter = f"""  
    قُلْ أَعُوذُ بِرَبِّ النَّاسِ |  
1|  
    مَلِكِ النَّاسِ |  
2|  
    إِلَهِ النَّاسِ |  
3|  
4| من شَرِّ الْوَسْوَاسِ الْخَنَّاسِ |  
الَّذِي يُؤْسِفُ فِي صُدُورِ النَّاسِ |  
5| من الْجِنَّةِ وَالنَّاسِ |  
6|  
|||||  
  
keyword = "وسوسة"  
  
prompt = f"""\n- Your task is to search for a keyword in a chapter text of the Holy Quran.  
- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.  
- The keyword match doesn't need to be exact; it could be a partial match.  
- Perform the search semantically.  
- The chapter text is organized as follows:  
    - Each verse in the chapter is in a separate line  
    - Each verse is preceded with the verse number  
  
- For each occurrence you find, display the verse with its number.  
- Finally, display the number of occurrences.  
  
The chapter text:  
---{chapter}---  
The keyword:  
<{keyword}>  
|||||  
  
In [20]: response = get_completion(prompt)  
print(response)  
  
Occurrences found:  
5| الَّذِي يُؤْسِفُ فِي صُدُورِ النَّاسِ |  
  
Number of occurrences: 1
```

**Quran Search Using GPT**

```
In [27]: chapter = f"""
1  قُلْ أَعُوذُ بِرَبِّ النَّاسِ
2  مَلِكِ النَّاسِ
3  إِلَهِ النَّاسِ
4  مِنْ شَرِّ الْفَسَادِ الْخَسَاسِ
5  الَّذِي يَوْسُوسُ فِي صُدُورِ النَّاسِ
6  مِنَ الْجِنَّةِ وَالنَّاسِ
"""

keyword = "الْوَسَاسٌ"

prompt = f"""
- Your task is to search for a keyword in a chapter text of the Holy Quran.
- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.
- The keyword match doesn't need to be exact; it could be a partial match.
- The chapter text is organized as follows:
    - Each verse in the chapter is in a separate line
    - Each verse is preceded with the verse number

- For each occurrence you find, display the verse with its number using this format:
    Verse No. (verse number): (verse)

- Finally, display the number of occurrences.

The chapter text:
---{chapter}---
The keyword:
<{keyword}>
"""
```

```
In [28]: response = get_completion(prompt)
        print(response)
```

Verse No. 4: (مِنْ شَرِّ الْوَسُوْسِ الْخَنَّاسِ)  
Occurrences found: 1

## Quran Search Using GPT

```
In [51]: chapter = f"""
165 قَالَ النَّبِيُّ مَنْ يَتَجَوَّلُ مِنْ دِينِ الْأَنْذَارِ يُجْعَلُهُمْ كُلُّهُمْ أَكْفَارٌ وَالَّذِينَ اتَّخَذُوا أَنْذَارًا هُمْ هُنَّ أَكْفَارٌ هُنَّ لَا يُؤْمِنُونَ بِهِمْ وَلَا يُؤْمِنُونَ بِالْقُرْآنِ هُنَّ مُخْبِرُونَ وَلَا هُنَّ شَهِيدُونَ لِقَاءً
166 لِقَاءً الَّذِينَ أَتَيْوْا مِنَ الدِّينِ أَتَهُمْ فِي الْأَذَانِ وَلَا هُنَّ مُنْظَرُونَ وَلَا هُنَّ مُنْظَرُونَ
167 وَقَالَ النَّبِيُّ اتَّهُمْ لَوْ أَنْ لَّا كُرَّةٌ فَتَتَّبِعُهُمْ كَلِمَاتُ رَبِّهِمُ الْأَصْلَامُ حَسْرَابٌ عَلَيْهِمْ وَمَا هُنَّ بِمَا يَحْدِثُنَّ مِنَ النَّارِ
"""

keyword = "اتَّبَاعٌ" ← Semantic keyword
```

- prompt = f""**
- Your task is to search for a keyword in a text of the Holy Quran.
  - The Quran text is delimited by triple dashes and the keyword is placed between angle brackets.
  - The keyword is provided in Arabic characters.
  - Match the semantic meaning of the keyword.
  - The Quran text is organized as follows:
    - Each verse is in a separate line
    - Each verse is preceded with the verse number
  - For each occurrence you find, display the verse with its number using this format:  
Verse No. (verse number): verse (with keyword surrounded by parenthesis)
  - Finally, display the number of occurrences.

```
The chapter text:
---{chapter}---
The keyword:
<{keyword}>
"""


```

**Detects All semantically similar words**  
(mistakenly listing the first verse )

```
In [52]: response = get_completion(prompt)
print(response)
```

```
فَوْنَ النَّبِيِّ مَنْ يَتَجَوَّلُ مِنْ دِينِ الْأَنْذَارِ يُجْعَلُهُمْ كُلُّهُمْ أَكْفَارٌ وَالَّذِينَ اتَّخَذُوا أَنْذَارًا هُمْ هُنَّ أَكْفَارٌ هُنَّ لَا يُؤْمِنُونَ بِهِمْ وَلَا يُؤْمِنُونَ بِالْقُرْآنِ هُنَّ مُخْبِرُونَ وَلَا هُنَّ شَهِيدُونَ لِقَاءً
165 لِقَاءً الَّذِينَ اتَّهُمْ مِنَ الْأَذَانِ وَلَا هُنَّ مُنْظَرُونَ وَلَا هُنَّ مُنْظَرُونَ
166 وَقَالَ النَّبِيُّ <اتَّبَاعُ> لَوْ أَنْ لَّا كُرَّةٌ فَتَتَّبِعُهُمْ كَلِمَاتُ رَبِّهِمُ الْأَصْلَامُ حَسْرَابٌ عَلَيْهِمْ وَمَا هُنَّ بِمَا يَحْدِثُنَّ مِنَ النَّارِ
167
```

Number of occurrences: 2

## Quran Search Using GPT

```
In [53]: chapter = f"""
165 قَالَ النَّبِيُّ مَنْ يَتَجَوَّلُ مِنْ دِينِ الْأَنْذَارِ يُجْعَلُهُمْ كُلُّهُمْ أَكْفَارٌ وَالَّذِينَ اتَّخَذُوا أَنْذَارًا هُمْ هُنَّ أَكْفَارٌ هُنَّ لَا يُؤْمِنُونَ بِهِمْ وَلَا يُؤْمِنُونَ بِالْقُرْآنِ هُنَّ مُخْبِرُونَ وَلَا هُنَّ شَهِيدُونَ لِقَاءً
166 لِقَاءً الَّذِينَ اتَّهُمْ مِنَ الْأَذَانِ وَلَا هُنَّ مُنْظَرُونَ وَلَا هُنَّ مُنْظَرُونَ
167 وَقَالَ النَّبِيُّ اتَّهُمْ لَوْ أَنْ لَّا كُرَّةٌ فَتَتَّبِعُهُمْ كَلِمَاتُ رَبِّهِمُ الْأَصْلَامُ حَسْرَابٌ عَلَيْهِمْ وَمَا هُنَّ بِمَا يَحْدِثُنَّ مِنَ النَّارِ
"""

keyword = "يَتَّبَعُونَ" ← Semantic keyword
```

- prompt = f""**
- Your task is to search for a keyword in a text of the Holy Quran.
  - The Quran text is delimited by triple dashes and the keyword is placed between angle brackets.
  - The keyword is provided in Arabic characters.
  - Match the semantic meaning of the keyword.
  - The Quran text is organized as follows:
    - Each verse is in a separate line
    - Each verse is preceded with the verse number
  - For each occurrence you find, display the verse with its number using this format:  
Verse No. (verse number): verse (with keyword surrounded by parenthesis)
  - Finally, display the number of occurrences.

```
The chapter text:
---{chapter}---
The keyword:
<{keyword}>
"""


```

**Adds translation**  
(instead of highlighting the keyword)

```
In [54]: response = get_completion(prompt)
print(response)
```

```
Verse No. 166 (the ones who followed) لِقَاءً الَّذِينَ اتَّهُمْ مِنَ الْأَذَانِ وَلَا هُنَّ مُنْظَرُونَ وَلَا هُنَّ مُنْظَرُونَ
Verse No. 167 (the ones who followed) وَقَالَ النَّبِيُّ اتَّهُمْ لَوْ أَنْ لَّا كُرَّةٌ فَتَتَّبِعُهُمْ كَلِمَاتُ رَبِّهِمُ الْأَصْلَامُ حَسْرَابٌ عَلَيْهِمْ وَمَا هُنَّ بِمَا يَحْدِثُنَّ مِنَ النَّارِ
Occurrences found: 2
```

## 3. Diacritical Search

## Quran Search Using GPT

```
In [29]: chapter = """  
نَّ النَّاسَ مِنْ يَتْهِدُ مِنْ دِينِ اللَّهِ أَنَّهَا يُجِيئُهُمْ كُلَّ هُنْدَرٍ  
وَالَّذِينَ اتَّهَدُوا أَنَّهُمْ بِهِ هُنْدَرُونَ وَأَدَى يَدِيَ الَّذِينَ طَلَبُوا إِلَيْهِ الْقُرْآنَ أَنَّ الْقُرْآنَ هُنْدَرٌ  
جَيْبِنَا وَإِنَّ إِلَهَ شَبَابِ الْقُرْآنِ|  
165  
إِذْ شَرَّا الَّذِينَ حَثَّتُمْ عَلَيْهِمْ مِنْ الَّذِينَ أَتَتُمُوهُمْ فِي الْقُرْآنِ وَتَقْطَعْتُ بِهِمُ الْأَسْبَابِ|  
166  
وَقَالَ الَّذِينَ أَتَتُمُوهُمْ فِي الْقُرْآنِ أَنَّهُمْ فَتَّشُوا مِنْهُ مِنْهُمْ كَلِبَكَ تَبَرُّهُمُ اللَّهُ أَعْصَاهُمْ خَسْرَانٌ عَلَيْهِمْ فَمَا هُمْ بِخَارِجِينَ مِنَ النَّارِ|  
167  
"""
```

keyword = "اتَّهَدُوا" ← Without diacritics

- ```
prompt = ""  
- Your task is to search for a keyword in a chapter text of the Holy Quran.  
- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.  
- The keyword match doesn't need to be exact; it could be a partial match.  
- The chapter text is organized as follows:  
  - Each verse in the chapter is in a separate line  
  - Each verse is preceded with the verse number  
  
- For each occurrence you find, display the verse with its number using this format:  
  Verse No. (verse number): (verse)  
  
- Finally, display the number of occurrences.
```

```
The chapter text:  
---{chapter}---  
The keyword:  
<{keyword}>  
"""
```

## Hallucinating

```
In [30]: response = get_completion(prompt)  
print(response)
```

فَيَنِّ الَّذِينَ مِنْ يَتْهِدُ مِنْ دِينِ اللَّهِ أَنَّهَا يُجِيئُهُمْ كُلَّ هُنْدَرٍ وَالَّذِينَ اتَّهَدُوا هُنْدَرُونَ  
وَأَدَى يَدِيَ الَّذِينَ طَلَبُوا إِلَيْهِ الْقُرْآنَ أَنَّهُ هُنْدَرٌ جَيْبِنَا وَإِنَّ إِلَهَ شَبَابِ الْقُرْآنِ|  
Verse No. (165):  
إِذْ شَرَّا الَّذِينَ حَثَّتُمْ عَلَيْهِمْ مِنْ الَّذِينَ أَتَتُمُوهُمْ فِي الْقُرْآنِ وَتَقْطَعْتُ بِهِمُ الْأَسْبَابِ|  
Verse No. (166):  
وَقَالَ الَّذِينَ حَثَّتُمْ عَلَيْهِمْ مِنْ الَّذِينَ أَتَتُمُوهُمْ فِي الْقُرْآنِ أَنَّهُمْ فَتَّشُوا مِنْهُ مِنْهُمْ كَلِبَكَ تَبَرُّهُمُ اللَّهُ أَعْصَاهُمْ خَسْرَانٌ عَلَيْهِمْ فَمَا هُمْ بِخَارِجِينَ مِنَ النَّارِ|  
Verse No. (167):

Number of occurrences: 3

## Quran Search Using GPT

```
In [33]: chapter = """  
نَّ النَّاسَ مِنْ يَتْهِدُ مِنْ دِينِ اللَّهِ أَنَّهَا يُجِيئُهُمْ كُلَّ هُنْدَرٍ وَالَّذِينَ اتَّهَدُوا هُنْدَرُونَ  
وَأَدَى يَدِيَ الَّذِينَ طَلَبُوا إِلَيْهِ الْقُرْآنَ أَنَّهُ هُنْدَرٌ جَيْبِنَا وَإِنَّ إِلَهَ شَبَابِ الْقُرْآنِ|  
165  
إِذْ شَرَّا الَّذِينَ حَثَّتُمْ عَلَيْهِمْ مِنْ الَّذِينَ أَتَتُمُوهُمْ فِي الْقُرْآنِ وَتَقْطَعْتُ بِهِمُ الْأَسْبَابِ|  
166  
وَقَالَ الَّذِينَ اتَّهَدُوا لَوْ أَنَّ لَنَا كُلَّهُ فَتَّشَّرًا بِنَمْمَهُ كَمَا شَرَّبُوا مِنْهُ كَلِبَكَ تَبَرُّهُمُ اللَّهُ أَعْصَاهُمْ خَسْرَانٌ عَلَيْهِمْ فَمَا هُمْ بِخَارِجِينَ مِنَ النَّارِ|  
167  
"""
```

keyword = "اتَّهَدُوا" ← With diacritics

- ```
prompt = ""  
- Your task is to search for a keyword in a chapter text of the Holy Quran.  
- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.  
- The keyword match doesn't need to be exact; it could be a partial match.  
- The chapter text is organized as follows:  
  - Each verse in the chapter is in a separate line  
  - Each verse is preceded with the verse number  
  
- For each occurrence you find, display the verse with its number using this format:  
  Verse No. (verse number): verse (with keyword surrounded by parenthesis)  
  
- Finally, display the number of occurrences.
```

```
The chapter text:  
---{chapter}---  
The keyword:  
<{keyword}>  
"""
```

## False Positives

```
In [34]: response = get_completion(prompt)  
print(response)
```

إِذْ شَرَّا الَّذِينَ حَثَّتُمْ عَلَيْهِمْ مِنْ الَّذِينَ حَثَّتُمْ عَلَيْهِمْ فِي الْقُرْآنِ وَتَقْطَعْتُ بِهِمُ الْأَسْبَابِ: 166  
وَقَالَ الَّذِينَ حَثَّتُمْ عَلَيْهِمْ مِنْ الَّذِينَ حَثَّتُمْ عَلَيْهِمْ مِنْ الَّذِينَ أَتَتُمُوهُمْ فِي الْقُرْآنِ أَنَّهُمْ فَتَّشُوا مِنْهُ مِنْهُمْ كَلِبَكَ تَبَرُّهُمُ اللَّهُ أَعْصَاهُمْ خَسْرَانٌ عَلَيْهِمْ فَمَا هُمْ بِخَارِجِينَ مِنَ النَّارِ: 167  
Number of occurrences: 2

## Quran Search Using GPT

```
In [35]: chapter = f"""\n    إِنَّ الَّذِينَ مِنْ أُنْوَنِ الْأَدَاءِ يُجْزَوُنَ كُلَّبَ الْهُدَىٰ\n    وَالَّذِينَ اتَّهَمُوا أَنَّهُمْ حَقُّهُمْ هُنَّ\n    هُنَّا لَوْ نَزَّلْنَا عَلَيْهِمْ مِنَ الْقُرْآنِ مَا شَاءَ\n    لَدُنَّ الَّذِينَ اتَّهَمُوا مِنَ الَّذِينَ اتَّهَمُوا قَرْآنًا\n    لِغَيْرِ الْعِذَابِ وَنَقْضَتْ بِهِمُ الْأَسْبَابِ\n    وَقَالَ الَّذِينَ اتَّهَمُوا لَوْ أَنْ لَنَا كُرْبَةً فَنَتَّهِنَا\n    كَذَلِكَ يُرِيهِمُ اللَّهُ أَعْصَالَهُمْ خَسْرَانٌ عَلَيْهِمْ\n    وَمَا هُمْ بِخَارِجِينَ مِنَ النَّارِ\n    """
```

keyword = "اتَّهَمُوا" ← With diacritics

- ```
prompt = f"""\n- Your task is to search for a keyword in a chapter text of the Holy Quran.\n- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.\n- The keyword match doesn't need to be exact; it could be a partial match.\n- The keyword is provided in Arabic language.\n- Perform diacritical search.\n- The chapter text is organized as follows:\n  - Each verse in the chapter is in a separate line\n  - Each verse is preceded with the verse number\n\n- For each occurrence you find, display the verse with its number using this format:\n  Verse No. (verse number): verse (with keyword surrounded by parenthesis)\n\n- Finally, display the number of occurrences.
```

```
The chapter text:\n---{chapter}---\nThe keyword:\n<(keyword)>\n---
```

## False Positive

```
In [36]: response = get_completion(prompt)\nprint(response)
```

إِنَّ الَّذِينَ <اتَّهَمُوا> مِنَ الَّذِينَ اتَّهَمُوا قَرْآنًا\nلِغَيْرِ الْعِذَابِ وَنَقْضَتْ بِهِمُ الْأَسْبَابِ: Verse No. 166  
وَقَالَ الَّذِينَ <اتَّهَمُوا> لَوْ أَنْ لَنَا كُرْبَةً فَنَتَّهِنَا\nكَذَلِكَ يُرِيهِمُ اللَّهُ أَعْصَالَهُمْ خَسْرَانٌ عَلَيْهِمْ: Verse No. 167

Number of occurrences: 2

## Quran Search Using GPT

```
In [37]: chapter = f"""\n    إِنَّ الَّذِينَ مِنْ أُنْوَنِ الْأَدَاءِ يُجْزَوُنَ كُلَّبَ الْهُدَىٰ\n    وَالَّذِينَ اتَّهَمُوا أَنَّهُمْ حَقُّهُمْ هُنَّ\n    هُنَّا لَوْ نَزَّلْنَا عَلَيْهِمْ مِنَ الْقُرْآنِ مَا شَاءَ\n    لَدُنَّ الَّذِينَ اتَّهَمُوا مِنَ الَّذِينَ اتَّهَمُوا قَرْآنًا\n    لِغَيْرِ الْعِذَابِ وَنَقْضَتْ بِهِمُ الْأَسْبَابِ\n    وَقَالَ الَّذِينَ اتَّهَمُوا لَوْ أَنْ لَنَا كُرْبَةً فَنَتَّهِنَا\n    كَذَلِكَ يُرِيهِمُ اللَّهُ أَعْصَالَهُمْ خَسْرَانٌ عَلَيْهِمْ\n    وَمَا هُمْ بِخَارِجِينَ مِنَ النَّارِ\n    """
```

keyword = "اتَّهَمُوا" ← With diacritics

- ```
prompt = f"""\n- Your task is to search for a keyword in a chapter text of the Holy Quran.\n- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.\n- The keyword match doesn't need to be exact; it could be a partial match.\n- The keyword is provided in Arabic language.\n- Perform the search to match Arabic diacritics.\n- The chapter text is organized as follows:\n  - Each verse in the chapter is in a separate line\n  - Each verse is preceded with the verse number\n\n- For each occurrence you find, display the verse with its number using this format:\n  Verse No. (verse number): verse (with keyword surrounded by parenthesis)\n\n- Finally, display the number of occurrences.
```

```
The chapter text:\n---{chapter}---\nThe keyword:\n<(keyword)>\n---
```

## False Positive

```
In [38]: response = get_completion(prompt)\nprint(response)
```

إِنَّ الَّذِينَ <اتَّهَمُوا> مِنَ الَّذِينَ اتَّهَمُوا قَرْآنًا\nلِغَيْرِ الْعِذَابِ وَنَقْضَتْ بِهِمُ الْأَسْبَابِ: Verse No. 166  
وَقَالَ الَّذِينَ <اتَّهَمُوا> لَوْ أَنْ لَنَا كُرْبَةً فَنَتَّهِنَا\nكَذَلِكَ يُرِيهِمُ اللَّهُ أَعْصَالَهُمْ خَسْرَانٌ عَلَيْهِمْ: Verse No. 167

Number of occurrences: 2

## **Quran Search Using GPT**

ن الناس من يتجدد من دون الله ابداً يحيطهم خبُّ اللهِ وَالَّذِينَ امْتَرَا اللَّهَ خَلْقَهُ إِنَّمَا يَعْلَمُ مَا يَنْهَا لِيَوْمَ الْحِسْبَانِ<sup>[165]</sup>  
وَقَالَ اللَّهُ أَكْرَمُهُمْ بِأَنَّهُمْ أَصْلَفُهُمْ إِنَّمَا يَعْلَمُ مَا يَنْهَا لِيَوْمَ الْحِسْبَانِ<sup>[166]</sup>  
وَقَالَ اللَّهُ أَكْرَمُهُمْ بِأَنَّهُمْ أَصْلَفُهُمْ إِنَّمَا يَعْلَمُ مَا يَنْهَا لِيَوْمَ الْحِسْبَانِ<sup>[167]</sup>  
وَقَالَ اللَّهُ أَكْرَمُهُمْ بِأَنَّهُمْ أَصْلَفُهُمْ إِنَّمَا يَعْلَمُ مَا يَنْهَا لِيَوْمَ الْحِسْبَانِ<sup>[168]</sup>

keyword = "لهمأ" ← With diacritics

```
prompt = """  
- Your task is to search for a keyword in a chapter text of the Holy Quran.  
- The chapter is delimited by triple dashes and the keyword is placed between angle brackets.  
- The keyword is provided in Arabic language.  
- Match the exact keyword with Arabic diacritics.  
- The chapter text is organized as follows:  
    - Each verse in the chapter is in a separate line  
    - Each verse is preceded with the verse number  
  
- For each occurrence you find, display the verse with its number using this format:  
    Verse No. (verse number): verse (with keyword surrounded by parenthesis)  
  
- Finally, display the number of occurrences.
```

The chapter text:  
---{chapter}---  
The keyword:  
<{keyword}>  
00:00:00

## False Positive

```
In [44]: response = get_completion(prompt)
          print(response)
```

Number of occurrences: 2

[Quran Search Using GPT](#)

نَّ النَّبِيِّ مِنْ يَتُّخِذُ مِنْ دِينِ اللَّهِ أَنَّمَا يَجْعَلُهُمْ كُفَّارًا هُوَ وَالَّذِينَ اتَّخَذُوا إِلَيْهِمُ الْأَئِمَّةَ مَنْ هُنَّ جَهَنَّمَيْنَ [165]  
وَقَالَ الْقَسْتَنْيُونَ أَتَيْتُمُوا لِنَّا كُورَةً فَقَبَّلُوكُمْ وَنَّمُونَكُمْ بَلْ كُلُّكُمْ تَبَرَّعُوا بِهَا [166]  
فَقَالَ الْقَسْتَنْيُونَ أَتَيْتُمُوا لِنَّا كُورَةً فَقَبَّلُوكُمْ وَنَّمُونَكُمْ بَلْ كُلُّكُمْ تَبَرَّعُوا بِهَا [167]

pattern = "\u043f\u043e\u0434\u043d\u0430\u0436\u0435\u043d\u0438\u044f" ← With diacritics

```
prompt = """  
- Your task is to search for a pattern in a text of the Holy Quran.  
- The Quran text is delimited by triple dashes and the pattern is placed between angle brackets.  
- The pattern is provided in Arabic characters with diacritics.  
- Match the exact pattern without discarding Arabic diacritics.  
- The Quran text is organized as follows:  
  - Each verse is in a separate line  
  - Each verse is preceded with the verse number  
  
- For each occurrence you find, display the verse with its number using this format:  
  Verse No. (verse number): verse (with pattern surrounded by parenthesis)  
  
- Finally, display the number of occurrences.
```

The chapter text:  
---{chapter}---  
The keyword:  
<(pattern)>  
....

## Hallucinating

```
In [48]: response = get_completion(prompt)
print(response)
```

وَقَاتَلَ النَّبِيُّ حَسْبَنَهُ لِمَ أَنَّ لَهُ كَذَّةً سَتَّنَهُ مَنْهُ كَمَا تَبَرَّعَ مَنْهُ كَذَّكَ لِيَهُمُ اللَّهُ أَعْلَمُ بِهِ حَسْبَنَهُ وَمَا هُمْ بِمَا يَحْكُمُونَ مُنَاهَزٌ

Total occurrences found: 3

## Quran Search Using GPT

```
In [49]: chapter = f"""
نَّ الَّذِينَ مِنْ بَنِي إِلَهٍ أَدَدُوا يُجْزِئُهُمْ كُلُّهُ إِلَهٌ
وَلَوْ يَرَى الَّذِينَ طَغَوْا لَمْ يَعْلَمُ الظَّالِمُونَ إِنَّ اللَّهَ هُوَ الْمُحِسِّنُ
إِنَّمَا يُنَزَّلُ الْكِتَابُ لِلَّذِينَ اتَّبَاعُوا مِنَ الَّذِينَ اتَّبَاعُوا فِرْقَاتٍ الظَّانُونَ
وَيَنْقُضُونَ بِهِمُ الْأَسْبَابَ
فَقَالَ الَّذِينَ اتَّبَاعُوا لَوْ أَنْ لَنَا كُلُّهُ فَنَسِيَّا مِنْهُمْ كَلِمَاتُ رَبِّهِمْ كُلُّهُمْ خَسِرَاءٌ عَلَيْهِمْ فَمَا هُمْ بِخَارِجِينَ مِنَ النَّارِ
"""

pattern = "اتَّبَاعُوا" ← With diacritics
```

```
prompt = f"""
- Your task is to search for a pattern in a text of the Holy Quran.
- The Quran text is delimited by triple dashes and the pattern is placed between angle brackets.
- The pattern is provided in Arabic characters with diacritics.
- Match the exact pattern with the exact Arabic diacritics.
- The Quran text is organized as follows:
  - Each verse is in a separate line
  - Each verse is preceded with the verse number

- For each occurrence you find, display the verse with its number using this format:
  Verse No. (verse number): verse (with pattern surrounded by parenthesis)

- Finally, display the number of occurrences.
```

```
The chapter text:
---{chapter}---
The keyword:
<(pattern)>
"""


```

Hallucinating  
(different verse from another chapter)

```
In [50]: response = get_completion(prompt)
print(response)
```

```
Occurrences found:
Verse No. (165): فَقَالَ الَّذِينَ كَفَرُوا يُلْقِيُنَّ اتَّبَاعَهُمْ سَبِيلَهُ وَلَتَخْلُلْ يَخْلَائِهِمْ وَهُنْ يَتَابُلُونَ مِنْ خَلْلَائِهِمْ مِنْ شَيْءٍ إِلَّهُمْ لَكُلَّيْنِ
Verse No. (166): إِنَّمَا يُنَزَّلُ الْكِتَابُ لِلَّذِينَ اتَّبَاعُوا مِنَ الَّذِينَ اتَّبَاعُوا فِرْقَاتٍ الظَّانُونَ
Verse No. (167): وَيَنْقُضُونَ بِهِمُ الْأَسْبَابَ
فَقَالَ الَّذِينَ اتَّبَاعُوا لَوْ أَنْ لَنَا كُلُّهُ فَنَسِيَّا مِنْهُمْ كَلِمَاتُ رَبِّهِمْ كُلُّهُمْ خَسِرَاءٌ عَلَيْهِمْ فَمَا هُمْ بِخَارِجِينَ مِنَ النَّارِ (167)
```

```
Total occurrences found: 3
```