Exercise: Improve Your Queries Using Prompt Design Techniques

Lesson Downloads

In this exercise, you will use different prompt design techniques to improve an LLM's performance on a computational reasoning task.

Our reasoning task will involve taking a list of words and combine their first letters into a new word. It will take one letter from the first word, two letters from the second word, and so on.

For example:

```
Q: backward removing postpone solution
A: brepossolu

Q: resolves devoting
A: rde

Q: trappers
A: t
```

Test for understanding

Let's make sure we understand the task!

Q:
striking
s

Q: scholars stirring
vocalist
sstvoc

Great work!
For the remainder of the exercise we will try to get the LLM to answer the following five questions correctly:

```
Q: striking
Q: scholars stirring vocalist
Q: forehead vocalist ancients mongolia
Q: forehead identify stalwart balsamic unheeded
Q: broadway unawares
```

The answers are as follows:

```
s
sstvoc
fvoancmong
fidstabalsunhee
bun
```

Let's start testing!
Test with a commercial LLM
First, let's try asking a commercial LLM such as ChatGPT or Bard the following question:

```
Fill in the missing answers:

Q: rumbling immortal laboring ancestor
A: rimlabance

Q: diagnose emitting shrivels harmless lunatics
A: demshrharmlunat
```

```
Q: meanings climates security literats
A: mclseclite

Q: striking
A:

Q: scholars stirring vocalist
A:

Q: forehead vocalist ancients mongolia
A:

Q: forehead identify stalwart balsamic unheeded
A:

Q: broadway unawares
A:
```

Question 1 of 4
This prompt is an example of:

- one-shot prompting
- two-shot prompting
- three-shot prompting

Submit

Question 2 of 4
Did the LLM get the ri nswer?

- Yes, it's amazing!
- No

Submit

In-context task descript
In-context learning refers ding information in the prompt t n help the model complete a task. Let's try two example

- A zero-shot prompt with a t ription
- A three-short prompt with a ta

You can use the boxes below to draft y
Remember to start a new conversation with the LLM with each question so it can start afresh.

Zero-shot prompt with a task description

Enter your response here, there's no right or wrong answer

Submit

Three-shot prompt with a task description

Enter your response here, there's no right or wrong answer

Submit

Question 3 of 4
Which of the prompts answered the questi[on] completely correct?

- Zero-shot prompt with a task description
- Three-shot prompt with a task description

Submit

Chain-of-Thoughts Prompting
Now let's try a chain-of-thoughts prompt. This ti[me] will skip th[e] description altogether.

You can use the box below to draft your prompt.

Three-shot Chain-of-Thoughts prompt with no task description

Enter your response here, there's no right or wrong answer

Submit

Question 4 of 4
Did three-shot Chain-[of]-[T]houghts prompting work f[or] you?

- Yes
- No

Submit

End of lesson
Great work! By the point yo[u] have a good idea of what s[ome] signals a large language model picks up on from your p[rompt]. Often, they are sensitive to smal[l] [change]. There are even situations in which too much information may confu[se]