

## Bringing ChatGPT into Arabic Language Learning

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### Abstract:

Artificial intelligence (AI) has changed the landscape of education and teaching, and one of the latest innovations that has shocked the world of education is the emergence of ChatGPT. This interactive application allows humans to communicate with computer machines for various purposes, including learning foreign languages. One of the languages that has traditionally been considered difficult to learn is Arabic, but with ChatGPT, learning Arabic has become easier and more affordable. This article aims to describe the various ways in which ChatGPT can be explored in learning Arabic.

**Keywords:** ChatGPT; Arabic learning; artificial intelligence

### Abstrak:

Kecerdasan buatan (AI) telah mengubah lanskap pendidikan dan pengajaran, dan salah satu inovasi terbaru yang mengejutkan dunia pendidikan adalah munculnya ChatGPT. Aplikasi interaktif ini memungkinkan manusia berkomunikasi dengan mesin komputer untuk berbagai keperluan, termasuk dalam belajar bahasa asing. Salah satu bahasa yang selama ini dianggap sulit dipelajari adalah bahasa Arab, namun dengan ChatGPT, belajar bahasa Arab menjadi lebih mudah dan terjangkau. Artikel ini bertujuan untuk mendeskripsikan berbagai cara yang dapat dieksplorasi ChatGPT dalam pembelajaran bahasa Arab.

**Kata kunci:** ChatGPT, belajar bahasa Arab, intelegensi buatan

## INTRODUCTION

The recent development of ChatGPT has created a knowledge revolution. Several activities that are usually quite heavy for the human brain can now be done lightly by a machine called ChatGPT (Hong, 2023; Castellanos-Gomez). ChatGPT is able to provide practical solutions in solving scientific problems, including in learning foreign languages, like in learning Arabic. Arabic, a foreign language in Indonesia, is still considered a complex language to learn (Yusuf, 2017). The difficulty of learning this language is quite complex, not only in terms of vocabulary but is more on understanding the structure of language. This is felt by most Arabic learners in Indonesia until the rise of ChatGPT. This machine makes learning Arabic easier, more varied, and innovative (Singer et al., 2023; Baidoo-Anu & Owusu Ansah, 2023).

We can create several Arabic learning activities independently. It can interact and dialogue with machines in learning Arabic. Learning Arabic just got easier. ChatGPT is an artificial robot or AI accompanying us in this language-learning process (Kohnke, 2023; Kim, 2023).

## **METHOD**

This article attempts to describe the use of ChatGPT for learning Arabic. Therefore, an explanation about ChatGPT, which comes from information on the internet, research, and articles, is used as a data source for this research. Furthermore, to show language learning steps, ChatGPT is used. Direct practice by interacting through this AI is carried out so that the desired results can be displayed.

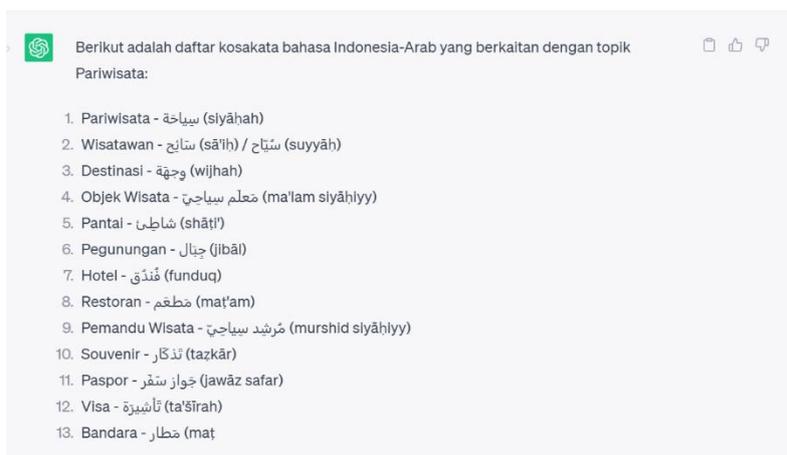
## **RESULTS AND DISCUSSION**

Here are some activities that can be done in learning Arabic using ChatGPT. In each way that will be explained, examples of its application are also given. Thus, it is hoped that language learners can imitate these steps. If necessary, language learners can adapt existing learning steps and innovate to the next level.

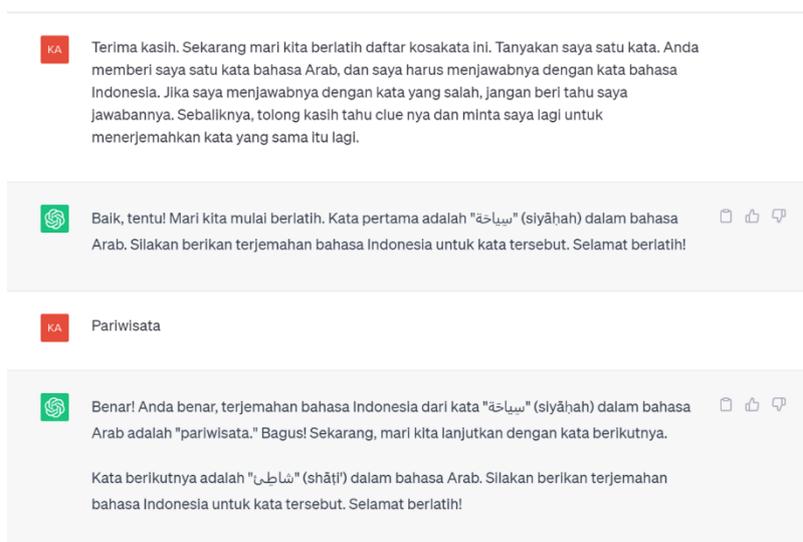
### **Vocabulary Learning**

If you are an advanced student with distinct vocabulary demands for work or study (or any other reason), you may use ChatGPT to produce personalized messages containing your necessary vocabulary. It can give you custom-made scripts that include the terminology you desire most so that you can practice reading precisely what you want to be able to speak. Reading out loud (I cannot emphasize how vital the “out-loud” aspect is) in this manner guarantees that your brain, mouth, and ears are in sync and that the words become intuitive and are available when you need them.

Do you already have a list of terms you need to know? Or do you have a paper that you wish you could convey using those words? All you have to do is copy and paste them into the ChatGPT prompt, as seen below.



**Figure 1: Vocabulary building**



**Figure 2: Exploring Vocabulary**

Steps:

1. Choose the vocabulary phrases you want to practice.
2. Begin by informing ChatGPT that you are studying a language for professional purposes and would prefer a personalized text with relevant vocabulary words to practice. Then copy and paste the words into ChatGPT.
3. Describe various work-related situations or conversation topics you would like to practice (optional).
4. Check the wording ChatGPT has written to ensure that it satisfies you. If not, keep asking for adjustments until you find a text you like.

## Creating *Muhadasah*

One of the most effective ways to quickly build an ear for your target language is to read aloud in it. It enables you to “speak” in the target language without having to learn all the vocabulary or grammar rules.

However, finding texts that are both appropriate for your level and interesting to you is difficult. That is why I am most thrilled about creating bespoke texts with ChatGPT. You can try several levels of your target language and ask for a tale or dialogue on a topic that interests you.

Steps:

1. In your native tongue - Tell ChatGPT what language you are learning and whether you are a beginner, intermediate, or advanced (do not worry about being precise; you can amend it afterward).
2. Choose an intriguing topic and request a piece to practice reading aloud. For novices, I propose a discussion like the one in the example below.
3. ChatGPT will instantly send you a text message. If you enjoy it, that is fantastic! However, if it is too difficult (or too simple), request that it be rewritten to your specifications. You can request that ChatGPT translate into your native language, either sentence by sentence or at the conclusion.
4. Repeat the process as many times as necessary (ChatGPT does not mind!) until you get a text you like.

Here is an example of a conversation prompt.

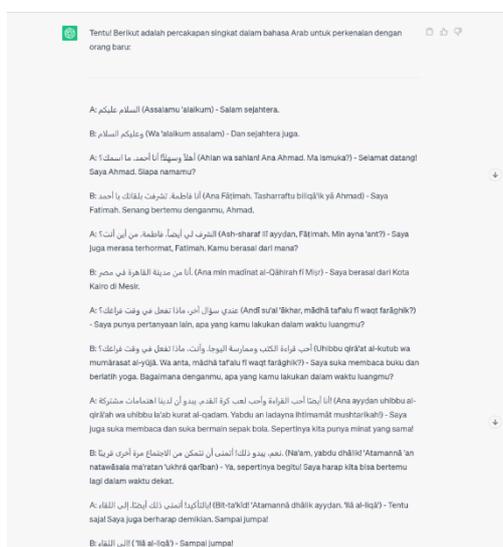


Figure 3: Conversation

## Translation

If we find sentences or expressions we do not understand, for example, in the use of the word metaphor, ChatGPT is quite capable of explaining the sentence's intended meaning. We can also translate Arabic dialects. As an example, below.



**Figure 4: Translating Arabic Dialect**

Steps:

1. Type the sentence or expression you want to know the meaning of.
2. Ask ChatGPT to explain what the sentence means.

## Collocation

When you are worried about using a specific term or want to see how it may be used in other contexts, ChatGPT can give sample sentences to assist you in comprehending the word's usage in context.

You may also request a term's collocations, which are word combinations that commonly appear together. They seem natural to native speakers because they are often employed in regular conversation. Knowing collocations will help you utilize words appropriately and sound more fluent in your target language.

Steps:

1. Determine the word or phrase you wish to investigate.
2. Request collocations and example sentences from ChatGPT.
3. Examine the examples presented to understand better how the term is used.


 Saya sedang belajar bahasa Arab. Tolong berikan contoh kolokasi dan penggunaan kalimatnya dari kata "دراسة" dalam bahasa Arab.


 Tentu! Berikut adalah beberapa contoh kolokasi dan penggunaan kalimatnya dari kata "دراسة" (darsah) dalam bahasa Arab:

1. دراسة اللغة: Darsat al-lughah (Studi bahasa)
  - أنا أقوم بدراسة اللغة العربية لأنني أحب تعلم اللغات الجديدة.  
 (Ana aqūm bi-darsat al-lughah al-'arabiyah li'annanī uhibbu ta'alam al-lughāt al-jadīdah)  
 - Saya belajar bahasa Arab karena saya suka belajar bahasa baru.
2. دراسة الطب: Darsat at-ṭibb (Studi kedokteran)
  - تحتاج إلى سنوات عديدة لإكمال دراسة الطب والحصول على الشهادة الطبية.  
 (Tḥtāj 'ilā sinwāt 'adaydah li-ikmāl darsat at-ṭibb wa al-ḥuṣūl 'alā ash-shahādah at-ṭibbiyah) - Dibutuhkan beberapa tahun untuk menyelesaikan studi kedokteran dan mendapatkan gelar medis.
3. دراسة العلوم: Darsat al-'ulūm (Studi ilmu pengetahuan)
  - هناك الكثير من التجارب والأبحاث التي يمكنك إجراؤها أثناء دراسة العلوم.  
 (Hunāk al-kaṭīr min at-tagārib wa al-abḥāṭ al-lati yumkinuka 'iḡrā'uhā 'atnā darsat al-'ulūm) - Ada banyak eksperimen dan penelitian yang dapat Anda lakukan selama studi ilmu pengetahuan.

**Figure 5: Learning Collocation**

## Semantic Relation

ChatGPT can provide you with a selection of synonyms to increase your vocabulary. These words have similar meanings or may be used interchangeably for another term.

Steps:

1. Choose a word for which you wish to get synonyms.
2. Request synonyms from ChatGPT.
3. Research and practice using the suggested synonyms


 Apa saja sinonim dari kata "يَمْشِي"? Buatlah contoh penggunaan kalimatnya.


 Sinonim dari kata "يَمْشِي" (yamshī) dalam bahasa Arab adalah "يَسِيرُ" (yasīru) dan "يَسْلُكُ" (yasluku). Keduanya memiliki arti yang sama yaitu "berjalan" atau "melangkah."

Berikut adalah contoh penggunaan kalimat untuk masing-masing sinonim:

1. يَمْشِي (yamshī) - berjalan / melangkah
  - هو يَمْشِي فِي الْحَدِيقَةِ كُلَّ يَوْمٍ. (Huwa yamshī fī al-ḥadiqah kulla yawm) - Dia berjalan di taman setiap hari.
2. يَسِيرُ (yasīru) - berjalan / melangkah
  - الأَطْفَالُ يَسِيرُونَ بِحِذْرِ عَلِيِّ الطَّرِيقِ. (Al-atfāl yasīrūn biḥazr 'alā 'at-ṭariq) - Anak-anak berjalan hati-hati di jalan.
3. يَسْلُكُ (yasluku) - berjalan / melangkah
  - الرَّجُلُ يَسْلُكُ بِخَطَى ثَابِتَةٍ وَمُتَوَازِنَةٍ. (Ar-raḡul yasluku bixiṭṭāṭin ṭābitah wa mutawāzinah) - Pria itu berjalan dengan langkah tetap dan seimbang.

Semua sinonim ini digunakan dalam konteks yang sama untuk menggambarkan tindakan berjalan atau melangkah, hanya saja kata-kata yang berbeda untuk menyampaikan makna yang sama.

**Figure 6: Synonym**

## Individual Grammar

For example, if we want to know the structure of an Arabic sentence, ChatGPT can explain it.

Steps:

1. ask for an explanation of the sentence in question
2. Furthermore, ask to explain in more detail the category of each word in the sentence.



**Figure 7: Grammar and Structure**

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