

Configuring an LLM Chatbot as Practice Partner for Language Learning

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Abstract. Chatbots based on Large Language Models (LLMs) have demonstrated a remarkable ability to engage in conversations that are linguistically correct and make sense from a pragmatic point of view. A significant trait of their proven abilities is that, when given instructions verbally as contributions to the conversation, they can adapt both the content and the role in which they participate in the conversation. The present paper explores the feasibility of developing a framework of prompts designed to configure one such chatbot to engage in conversation with a language learner so that it can propose engaging situations of the appropriate level of complexity, enact specific roles in the conversation, monitor learner responses, and provide feedback on their language performance both proactively and in response to learner requests. The proposed functionality is tested for a classroom of Hindi-speaking students of Spanish language at Aligarh Muslim University in India.

Keywords: AI in Education · Conversational AI · ChatGPT · Formal Language Learning · Usability Testing

1 Introduction

Chatbots based on Large Language Models, by reason of their training, present significant advantages that are relevant for second language learning. First, they have operational competence in holding conversations in a given language. Second, they have knowledge of everyday life situations that might be used as settings for a conversation. Third, they have a certain understanding of the linguistic concepts involved in putting together valid sentences. Fourth, they have the ability to respond to instructions by adapting the general trend of the conversation. Fifth, they can easily switch languages to rephrase or explain problematic points. These advantages suggest they might be a good solution for language students to practice their skills on a one-to-one basis with an accommodating partner.

The present paper explores the practical feasibility of such an approach by designing specific prompts to configure a chatbot to perform in this way.

2 Previous Work

A number of topics need to be reviewed to provide context for the work in the present paper: use of AI to support learning, the challenges involved in second language learning and the use of large language models for language learning tasks.

2.1 AI to Support Learning

A significant effort to use AI in support of learning has been invested in the field of Intelligent Tutoring Systems. An Intelligent Tutoring System (ITS) is a computer program that provides instruction adapted to the needs of individual students, doing so mainly by presenting to the student the information to be learned, asking questions, setting tasks, and providing feedback [20]. ITSs often involved a dialogue system – to permit the interaction between the student and the system – and a set of instructional strategies to drive that interaction.

Existing research on ITSs has addressed the learning of science-related topics. One of the few ITSs to focus on language learning was the ITS FeedBook [22], which focused on the teaching of English as a second language. A subsequent empirical evaluation of its pedagogical efficiency [21] argued that language teachers often face the challenge of not having sufficient time to provide tailored interaction to different students with different needs, and how the use of ITSs might provide an opportunity to address this problem.

The existence of significant surface similarities between the dialogue systems used in ITSs and the new chatbots based on LLMs gave rise to considerations of whether such chatbots might be used directly as tutoring systems [18].

A recent system that exploits the multi-modal capabilities of LLMs to help children’s language learning by guiding children to describe images in a second language [17] explores the possibility of getting LLMs to respond using appropriate instructional strategies by injecting instructions in the prompt.

2.2 Challenges of Second Language Learning

One of the challenges faced by second or foreign language learners is the fear of being evaluated negatively. The students are in constant fear that they might commit a mistake. Foreign language anxiety has been termed a peculiar syndrome that is just like other anxieties linked to first language use [8, 11]. There are multiple facets to the classroom anxiety when the students have to ask questions or get their doubts cleared in front of their peers. Some of the common fears are the ones of negative evaluation, test anxiety and the apprehension related to communication. It is this anxiety that often leads the students towards getting

demotivated. Oxford and Shearin [19] have mentioned that motivation directly influences the strategies used by the students while learning a foreign language.

The challenges might be common while learning a foreign language, but it has to be looked at with an empirical context as well. The majority of the text books that are used in India, are designed keeping the communicative approach in mind [14]. However, the students have had the habit and practice of learning languages like English traditionally, using the archaic grammar-translation method. For instance, many of the students at Aligarh Muslim University have not heard about communicative approach to learn a language. They get surprised after looking at a book like ‘Aula 1’ where there are no grammatical explanations but just conversations and texts.

Apparently, the students find it less challenging to respond or to ask things to a computer. There are some researches like the one by Adair-Hauck et al. [1], which advocate for technological components to be available for students at any time of the day. There are many challenges while employing technologies also, but the intent should be towards the benefit of the students who are learning the language. The implementation of technological tools is definitely something where teachers’ expertise will help a lot, but it should be the needs of the students that drive this process [26]. Chatbots are the latest in the series of innovative and interactive classroom practices. They might help students learn a foreign language without facing any anxiety or being evaluated by their peers, if they are designed based on the empirical data.

2.3 LLM Chatbots

The advantages of using chatbots for language learning had already been established with solutions based on earlier technologies [6]. The recent revolution of attention-based neural solutions [24] resulted in the appearance of chatbots [25] based on Large Language Models [9] that can engage in conversations that are linguistically correct and make sense from a pragmatic point of view. A significant trait of their proven abilities is that, given instructions presented verbally as contributions to the conversation, they can adapt both the content and the role in which they participate in the conversation. This has given rise to the discipline of *prompt engineering*, the practice of creating and optimizing prompts for large language models with the intention of guiding toward the correct outputs and preventing hallucination [16].

The potential application of these LLM-based chatbot technologies to language learning has received attention in terms of general reviews of its affordances for the task [13], analysis of potential impact from the point of view of theories of learning [2] and the importance of the teacher’s role in supporting student interaction with the technologies [5].

Although there is a pervasive interest in using these technologies to generate material to inform traditional language learning [12], some of the reviews on prospective use mention the potential of these technologies to provide a conversational interaction [27]. In such interactions, the students can exercise their language skills dynamically, and they can benefit also from the ability of the

chatbot to present students with virtual simulations of everyday life situations on which to train [2]. In this paper we choose to focus on this aspect, to allow much-needed exploration of the free interaction between the student and this type of chatbot [10].

Report on actual use of this type of chatbot for English language learning [27, 2, 23] often focus on writing tasks rather than conversational practice. Of particular relevance for the work developed in this paper is [23], which reports on the use of a post-task questionnaire to gather feedback on the students' experience during their interaction with ChatGPT. Even though this work focused on vocabulary learning for English, we have found it appropriate to apply as existing assessment method for chatbot language learning.

3 LLM Chatbot as Language Practice Partner

At the start of the interactive session, the students are led through basic routine to ensure that they are familiar with the AI chatbot. They are provided with the written script for configuring the chatbot and shown by a tutor how to apply the instructions to set up an interactive session with the chatbot. Each student interacts with the chatbot for a period of time of one hour and a half. Once the allotted time has passed, students are asked to record the conversation, and they are given a survey to complete.

The experiment is carried out for a set of students whose level of Spanish ranges between A1 and B2. To allow each student to customise the chatbot response to their level the following two prompts were suggested.

Beginner students were encouraged to provide the chatbot with the following prompt:

I'm a student at university. I'm from India. I'm learning Spanish. I'm practising Spanish. I can speak native Hindi and English. I have A1 Spanish level. The conversation must be in A1 Spanish. Praise my advances. Use Spanish for the conversation. If I make any mistakes please explain them to me in English.

Advanced students were encouraged to use the following prompt:

I'm a student at university. I'm from India. I'm learning Spanish. I'm practicing Spanish. I can speak native Hindi and English. I have a B1 Spanish level. The conversation must be in B1 Spanish. Praise my advances. Let me know when I make a mistake and explain it. Use Spanish for the conversation. Unless I tell you otherwise, use Spanish also for explaining my mistakes and for explaining what you are doing.

The prompts were designed to ensure that the chatbot proactively engaged in interactions intended to help the students practice their Spanish. The second half of the prompt establishes the guidelines for the pedagogical strategies to employ for different types of students regarding encouragement (both levels:

Praise my advances), identification of mistakes (beginner: *If I make any mistakes please explain them to me (...)*, advanced: *Let me know when I make a mistake (...)*), and explanation (beginner: *If I make any mistakes please explain them to me in English*, advanced: *use Spanish also for explaining my mistakes*). The issue of language switching is also explicitly addressed for each of the levels. For beginners, basic conversation is carried out in Spanish but mistakes and explanations are given in English. For advanced students, both conversation and explanation are to be carried out in Spanish, though the option is given to switch to English at need.

In both cases students were asked to converse with the chatbot to get used to the mechanics of the interaction. The students were also encouraged to ask questions about any point they did not understand, and to remember the chatbot is a conversational agent, so they should work with it by asking it questions or giving it instructions.

Once the students are familiar with the idea of interacting with the system, they are asked to introduce the following prompt to drive the system to engage in role playing situations useful for language learning:

*¿Puedes plantearme una situación en la que yo tengo que hablar español, y luego jugar tú el papel de alguno de los personajes, para que yo practique mi conversación en español?*⁴

Initial experiments showed that the chatbot has a tendency in these cases to generate the whole conversation instead of letting the student participate. Students were advised to take the opportunity to review it, then insist using the following prompt:

*Quiero que escenifiquemos la conversación entre tú y yo. Tienes que decir tú la primera frase y esperar a que yo diga la siguiente antes de continuar*⁵.

These instructions were intended to allow students unfamiliar with the chatbot to experience the type of situations of conversational interaction that we wanted to explore.

4 Discussion

The results of the experiment were evaluated for linguistic correctness demonstrated by participants in the interactions, both human and non-human, and for usability of the chatbot as perceived by the students.

A total of $N = 20$ students of Spanish participated in the session. There were 12 male participants (60%) and 8 female participants (40%). The averages of the Spanish language skill level of the participants as declared in the post-experiment questionnaire is shown in Table 1.

⁴ Can you set up a situation where I have to speak Spanish, and then you play the role of one of the characters, so that I can practice my Spanish conversation?

⁵ I want us to stage the conversation between you and me. You have to say the first sentence and wait for me to say the next one before continuing.

	Listening	Writing	Speaking	Reading
Averages	4.40	4.35	4.50	4.35

Table 1. Averages for levels of Spanish language skills (1–5) for participating students (as self-declared in post-experiment questionnaire).

The responses on Spanish language skill level are generally consistent across the four skill areas, and roughly break down into 4 students at level 3, 4 students at level 4 and 12 students at level 5.

4.1 Assessing Linguistic Correctness of the Interactions

At the end of the interactive session, the students were asked to share the link to their conversation with ChatGPT and email it to the researchers. The conversations recorded during the session were reviewed by an experienced teacher of Spanish.

When a student mentions an interest in language learning, the chatbot offers help as a practice partner. If the student accepts, the chatbot engages the student in a simple conversation, and gently corrects any obvious mistakes made. The proposed prompts help focus on particular levels of language difficulty. Overall, three different modes of interaction are observed: if conversation is requested, the chatbot offers engaging conversation with the student; if exercises are requested, the chatbot proposes language exercises to solve; if clarifications are requested, the chatbot provides explanations of related linguistic concepts. In conversation mode, the chatbot tends to forego the correction of mistakes. If the request for a conversation occurs in a context where exercises have been mentioned before, the chatbot tends to provide the transcript of a complete conversation rather than engage the student in an interactive manner. Some of the prompts proposed for the students to use were intended to help them break out of such situations. In exercise mode, the chatbot usually provides exercises that require the student to fill in words missing from a set of given sentences. When the student solves the proposed exercises, the chatbot tends to provide the list of solutions, indicating which ones were correct and incorrect in the students’ response, and often justifying why. In explanation mode, the chatbot tends to provide a list of bullet points that cover the main concepts of the linguistic feature being considered.

Over a total of 20 recorded interactions, 3 students used the prompt to set the level to A1 and 3 used the prompt to set the level to B1.

Basic metrics computed over the contributions by the students and the chatbot are reported in Table 2.

The metrics show a wide discrepancy in the values reported for the length of the interactions. Shorter interactions may be associated with students that have difficulty carrying out a conversation, whether because they are unfamiliar with the chatbot mechanisms or they have poorer language skills.

The ratio between the average size of the spans of the interactions devoted to role playing conversation and the overall interaction length on average is

Aspect	Average	Min	Max	SD
Interaction length (# turns)	24.95	5	56	14.57
Role playing span (# turns)	7.45	0	37	13.05
Exercises proposed	1.15	0	5	1.38
Clarifications requested	0.40	0	2	0.38
Errors	8.60	0	39	9.58
Praise	3.15	0	13	3.79
Encouragement	0.75	0	3	0.83

Table 2. Metrics on pedagogic strategies and linguistic correctness of recorded conversations. For comparability, we follow [23] in reporting metrics in terms of values achieved on average for each aspect. Unless specified otherwise, values given refer to number of instances detected of corresponding aspect.

low. In specific terms, the observed performance is that only 23.34 % of the recorded interactions (in terms of number of turns over complete number of turns of each conversation) actually involves a conversation where the chatbot and the student are each role playing a different character in a situation. This is undesirably low. Improvements may be achieved by informed refinement of the prompt suggestions provided by the students.

A number of the interactions involved the chatbot proposing language exercises to the students. This is spontaneous behaviour of the chatbot on detecting that the user is interested in language learning. Revisions of the prompts may be required to block this behaviour if role playing conversation is preferred.

The recorded interactions show instances of the chatbot providing both praise and encouragement to the student. However, both strategies are applied when the chatbot is operating in exercise mode and not applied when the chatbot is operating in role playing conversation mode. This is probably related to the chatbot having been trained specifically during fine-tuning that explicitly included these strategies.

Regarding linguistic correctness, the chatbot has not been found to make any linguistic mistakes, but it often fails to identify mistakes committed by the student. Corrections volunteered by the chatbot are mostly correct. A summary of the statistics observed over linguistic correctness is provided in Table 3.

Av. % student errors identified	47.48
Av. % appropriate corrections (over identified errors)	64.33
Av. % inappropriate corrections (over identified errors)	35.67

Table 3. Metrics on linguistic correctness.

It is important to note that detection of errors was carried out successfully when the chatbot was operating in exercise mode, but was much less in evidence when the chatbot was role-playing a conversation. If detection and correction of errors is deemed to be positive for learning, the proposed prompts may be

revised to ensure error detection is also applied in that mode. The chatbot has certainly shown itself capable of the task.

We did observe cases where a student challenged corrections made by the chatbot and the chatbot backed down and gave the student’s contribution as valid even though it was incorrect. This problem is related to the chatbot’s default behaviour of backpedalling with no hesitation if challenged by the user. Although this may be a useful strategy to limit the impact of conceptual mistakes inherent to the technology, it may have a negative impact on its applicability as a teaching aid.

Only two instances were recorded where the chatbot refused a request by the student: both were situations where the student asked the chatbot for advice leading to illegal activities.

Finally, on the issue of which language to employ, we observed that, given the proposed prompts, the chatbot will generally respond in the selected target language (Spanish). If the student issues instructions in a different language (English), the chatbot will generally answer in Spanish. Overall, we observed that 97.68 % of the dialog turns in the full set of recorded interactions have been in Spanish.

4.2 Assessing Learner Satisfaction

The students were asked to complete an on-line survey that included the questions used in [23] to evaluate a similar experiment of using ChatGPT to help Norwegian students learn vocabulary for English.

The questionnaire includes five different sections: (1) Demographics information, (2) Previous Spanish language knowledge level, (3) Feedback using “Usefulness, Satisfaction, and Ease of Use (USE)” Questionnaire, (4) Feedback using “System Usability Scale (SUS)” Questionnaire, (5) Perception relative to aspects being considered.

The responses for the first two sections have been reported in the section above.

The USE questionnaire [7] is used to evaluate the usability of a technical system. Users are expected to score 30 items divided into 4 subgroups (usefulness, ease of use, ease of learning, satisfaction) on a Likert scale from 1 to 5 by showing their disagreement or agreement. A score of 1 is strong disagreement and 5 is strong agreement on the scale. Following [23] for comparability, for each aspect of the USE questionnaire we computed a score as the ratio of the sum of values provided by the user for the set of questions on that aspect. Similarly, the SUS questionnaire [3] measures the perceived usability of a software system. It also uses a Likert scale from 1 to 5 to score 10 items. Table 4 reports the values obtained for our experiment side by side with those reported by [23].

Comparing our results with those reported in [23] we can see that the results of our experiment are slightly higher in all categories (SUS: 40.45 > 29.90, Usefulness: 36.30 > 30.80, Ease of Use: 49.25 > 43.30, Ease of Learning: 19.02 > 17.50, Satisfaction: 32.95 > 29.70). The negative values for skewness show the asymmetrical behaviour of the responses with respect to a normal distribution,

	Max.	score	Mean	SD	Min	Max	Skewness	Kurtosis
Our Experiment								
SUS	50	40.45	8.91	20	50	-1.22	0.19	
Usefulness	40	36.30	5.21	23	40	-1.27	0.87	
Ease of Use	55	49.25	8.01	28	55	-1.97	4.19	
Ease of Learning	20	19.02	2.09	12	20	-2.58	5.82	
Satisfaction	35	32.95	4.36	20	35	-2.15	3.84	
Sheik et al., (2023)								
SUS	35	29.90	3.00	26	35	0.15	-0.76	
Usefulness	40	30.80	5.35	19	38	-1.12	1.85	
Ease of Use	55	43.30	7.60	31	54	-0.52	-0.91	
Ease of Learning	20	17.50	2.36	13	20	-1.00	0.15	
Satisfaction	35	29.70	3.88	21	35	-1.07	2.16	

Table 4. Values for aspects of usability covered by SUS and USE questionnaires: present experiment and [23].

with the values concentrated on the right of the distribution; the relatively high values for kurtosis in some of the items respond to the fact that most users scored those items with a 5, whereas very few users ranked them with lower values.

The responses for the part of the questionnaire that was specific for the task are reported in Table 5. In general responses are very positive (for all the questions the mode value was 5). Qualitative comments on these aspects were also gathered, and they all were positive or very positive (no negative comment was collected).

	Mean	SD
Did you feel that the chatbot proposed conversation topics that allowed you to practice the targeted feature of the language?	4.60	0.68
Did you request clarifications?	4.20	1.15
Did you need to ask for explanation in your native language?	3.65	1.42
If you asked for clarification in English, did the chatbot remember to return to Spanish after explaining?	4.60	0.60
Did the chatbot remember to correct your mistakes?	4.30	0.92
Did you have to remind it to correct your mistakes?	4.05	1.32
Did you at any point receive praise from the chatbot?	4.25	1.12
Do you think you have learnt new languages skills?	4.65	0.59
Do you think the session helped you practice your Spanish?	4.80	0.52

Table 5. Reported scores on relevant aspects.

The relatively lower value (4.20) for the question on clarifications is supported by the very low numbers for clarifications requested in Table 2. The same goes for the response to question on explanations in English (3.65), which the analysis

above shows to be very scarce. The relatively high score (4.30) for the ability of the chatbot to return to Spanish after explaining in a different language indicates that the chatbot obeyed the request to switch languages for the explanation, and observed the instructions of the given prompt relative to continuing in Spanish afterwards. The questions about mistakes may be negatively affected by the students' inability to perceive how many mistakes they were making. This needs to be revised on future versions of the survey. The student's perception of the frequency of praise may be related to differences between students receiving more role playing and students receiving more exercises.

With respect to the issues identified as relevant in the state of the art, the experiment has shown that the use of LLM-based chatbots can provide a valid response for the challenge of language teachers not having sufficient time to provide tailored interaction to different students with different needs, as first argued in [21]. The injection of specific instructions in the prompt, as suggested by [17], has been shown to guide LLMs to respond using appropriate instructional strategies of mistake identification, explanation and encouragement. The experience as reported by the students that took part in the experiments shows a very low impact of foreign language anxiety [8, 11].

5 Conclusions

The reported experiment shows evidence that, when used without any specific fine tuning, LLM-based chatbots have the ability to propose everyday situations requiring conversations appropriate to exercise specific language topics (on average 7.7 dialog turns over around 25, with a student satisfaction of 4.60/5), and that students enjoy and engage with the system, even without previous training. The chatbots have also demonstrated the ability to explain the relevant concepts (4.20/5), and the ability to identify mistakes (47.48% errors identified, 4.30/5 perception by students) and correct them (64.33% valid corrections). The chatbot has also been seen to switch languages on demand (3.65/5) and to switch back to the target language after explanations (4.60/5). The observed interactions show instances of use of pedagogical strategies such as praise (on average 3.15 dialog turns over around 25, with 4.25/5 student perception) and encouragement (on average 0.75 dialog turns over around 25). It must be said that some of these uses of pedagogic strategies seem related to particular modes of interaction – exercise solving – that may be the result of specific fine-tuning. In general terms, the chatbot responds to instructions by adapting the general trend of the conversation to particular topics requested by the students.

Other features desirable for language learning still need to be tested empirically such as the ability to switch languages on demand or the ability to adjust the complexity of explanations to different levels of expertise.

With respect to the challenges specific to second language learning as described in Section 2.2, the chatbot shows a commendable flexibility to depart from the grammar / translation approach to language teaching by entering into conversations of specific interest to the student. In the students' conversation

logs we have seen topics related to the Golden Age in Spain, the conquest of America, serial killers, shopping, or how to get a scholarship to study in Spain.

The chatbot's default behaviour of not picking out students' mistakes during conversation may have helped to reduce the students' fear of being evaluated negatively, which may lead to longer lasting engagement in conversation. There is however a risk that overlooking serious mistakes may have a negative impact on the student's learning progress.

An often voiced concern is that the use of ChatGPT weakens real-life communication and interaction between people [2, 15, 4] and critical thinking [15]. Whereas this may be the case in situations where students access such resources remotely from their home, during the experiments reported in this paper, which involved students accessing the chatbot from rows of computers placed in a laboratory, we observed significant interactions between the students to comment on the replies. These comments often involved disparaging remarks on particular responses by the chatbot. Overall, we believe that the risk of such negative impacts of chatbot technologies may not necessarily be greater than for books or videos, in the sense that these more traditional technologies also provide opportunities for students to isolate themselves, without the added opportunity of having a dynamic interaction. It is also important to note that traditional technologies are also subject to occasional errors in accuracy or bias.

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