

# The application of artificial intelligence in teaching and learning English language at Nam Dinh university of nursing

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**Abstract:** *English learning takes a long process requiring both teachers and learners to apply feasible methodology to gain compelling results. Therefore, a suitable approach helps enhance the quality of teaching and learning outcome. Here in this paper I strongly recommend AI in teaching and learning English at Nam Dinh University of Nursing.*

**Keywords:** *Nam Dinh University of Nursing, English learning, AI*

## 1. Introduction

Artificial Intelligence (AI) is increasingly popular and developed in modern society, from health care to education, especially in the field of foreign language teaching. It provides useful tools to improve and enhance learning outcomes. Although the application of AI technology is still quite new, it is finding a lot of potential in helping teachers and students achieve their goals. Today, with globalization, foreign language learning is constantly evolving. Therefore, foreign language teaching is not simply about following the curriculum, teaching and learning passively; but also need to create more rich and realistic content, build a feedback system over time between teachers and students, and also need environments to apply linguistics. Applying AI with its superior characteristics will help the foreign language teaching process become more interesting, more responsive and more effective.

## 2. Method

This is a library research. Data is collected at the object of research or collection of bibliographic data, or a study carried out to solve a problem that is based on a critical and in-depth study of relevant library materials. One of the characteristics of library research is that the researcher is face to face with the text. This analysis will have a deep dive on a variety of reference books or journals as well as the findings of related prior research to get a theoretical foundation for the issue at hand. Various sources of data used as material for this research include books, journals, and internet sites/websites

related to the topic that has been selected by the researcher. Sources of research data consist of various books and journals related to this research topic. Documentation is the data collection method used in this analysis, which involves searching for knowledge about items or factors in the form of documents, books, articles, papers or posts, newspapers, and other sources. But, in this research, an evaluation of the concepts and theories used is chosen based on the available literature, especially from several articles have published in various scientific journals. After all the data is collected, researcher analyzes the data in the next step so that a conclusion is drawn. To get the correct and correct results in analyzing the data, the writer uses content analysis techniques. Content analysis is a type of study that entails a thorough examination of the contents of written materials because this data to be studied requires a descriptive explanation.

## 3. Finding and discussion

### 3.1. AI technology in English Language Teaching

AI provides a wide variety of developments in foreign language education with the exponential development in natural language processing and technologies to cope with big data (Li, 2020). English language teaching (ELT) is considered an integral educational aim in terms of improving the potential of students to interact internationally. AI provides a vast range of enhancements in foreign language education such as changing the atmosphere in which English is learnt, optimizing the teaching impact of English teaching, changing the teacher's role as guide with the exponential

development of natural language processing and technologies capable of working with big data. AI is a challenging and creative field in teaching English, it may help make world classrooms open for all, including those who speak various languages or may have a vision or auditory impairments. Gawate (2019) states that As an additional support system, AI will play a critical function for both students and teachers of the English language.

### **3.2. Relationship between AI and English Language Learning**

AI technology is a technological development that explores how the robot can complete the intelligent work with humanoid features (Han, 2019). Technology also develops in such a way that it becomes more advanced and makes it easier for us to do some work, such as teaching and learning English with outstanding results. One technology that is often discussed in the wider community is artificial intelligence technology. Technology is opening up many new possibilities for language learning (Fryer & Carpenter, 2006).

Luo & Cheng (2020) states that teaching foreign languages is powered by AI technologies. The challenges of short teaching hours, limited space, limited resources, and a monotonous measurement method can be solved efficiently by AI technology, etc. Thornton (2007, p. 1) defines that almost all programs/technologies AI can be said to be doing some form of problem-solving tasks.

Teaching and learning English has become easier with the development of digital platforms. AI technology now offers the opportunity to improve English language skills. Language literacy and digital literacy are a neat combination to improve global competence. AI bases its process on the text processing of a language. The more sophisticated the AI, the more and more accurate the language he mastered. Therefore, the use of AI technologies would strengthen foreign language teaching and learning. (Yingsoon, 2021). AI plays a role in conveying various information and also helps in making the English learning process even more effective. The existence of various kinds of learning technology makes it easier for these learners to understand what has been explained by

the teacher. Even students also have the ease of learning even without having to face the teachers directly. There are so many choices of language learning applications based on the technology of Artificial Intelligence (AI) which can be used by both English educators and students/learners. Some examples of AI technology that can be used in English language learning are as follow:

#### **3.2.1. Kahoot**

Using Kahoot to learn vocabulary has become an interesting option, this learning becomes very fun and motivate students to learn foreign language in a positive way. Using Kahoot aims as a formative assessment for teachers, it can help teachers monitor each student's progress towards learning goals, identify strengths and weaknesses, and to identify areas where students will benefit from more than one teaching, more challenging learning opportunities, or reviews of basic knowledge for the subject. More experienced users also integrate Kahoot into their curriculum to introduce new topics, improve retention of new facts, revise before exams, challenge classes around the world, opinion surveys, gather insights, facilitate discussion, or to reward and restore learners energy in the study.

#### **3.2.2. Google Translate**

Concerning teaching and learning English, Google Translate as a translator is the main function, considered an online translator. Students can use it to translate single words or phrases or even a paragraph from an original language to other language and vice. Google Translate can be used to check the spelling of words that arise due to typos. It is very useful when it comes to checking the English spelling. Google Translate can be used as a tool to learn foreign language word pronunciation. For students who want to learn English for free, especially how to pronounce words, google translate can be an ideal option.

#### **3.2.3. Elsa Speak**

ELSA (English Learning Speech Assistant) Speak is an application for learning English that applies artificial intelligence and speech recognition. This technology allows for a two-way learning process, for example, the users can pronounce certain words or sentences, then the system will perform analysis and provide corrective

input. The ELSA framework is trained to use voice data of people speaking English with multiple accents, to recognize the speech patterns of non-native speakers, distinguishing them from most other speech recognition technologies. Users are given an assessment test to determine their level of proficiency. ELSA provides scores ranging from zero to 100, with most native speakers scoring 95 or above. The results help ELSA personalize the user's learning path, highlighting which sounds hit the spot, and what else needs tweaking.

#### 3.2.4. Duolingo

Duolingo is a web that is used to learn foreign languages. Duolingo is a language learning application that uses a game method by matching words and filling in the blank parts of sentences. This method aims to teach the grammar, words, and phrases needed in a sentence. Concerning teaching and learning English, Any student at any level of English can learn a new science with Duolingo. So that the learning materials obtained by users match their abilities, Duolingo conducts tests first. After taking the test, Duolingo users will know what level of English they are at. Only then will Duolingo provide English material that has been adapted to the user's abilities. Not only about grammar, but Duolingo is also equipped with learning vocabulary, terms, and so on. Duolingo's English teaching method is also designed to be gaming-like and "competitive" with other users. That way, users of this application can see the development of English language skills that have been learned so far.

#### 4. Conclusion

Artificial intelligence created to make robots that possess intelligence that is similar to or even more than the intelligence possessed by humans. AI is expected to be able to do a variety of tasks that will make it easier for humans, starting from natural language processing, regarding perception, reasoning, moving and manipulating objects, knowledge, and also learning. The purpose of these innovations is to reduce working time so that activities can be more efficient and enhance the quality of the work. By using AI, humans become cheaper in making decisions and carrying out activities.

Learning English has become easier with the development of digital platforms. Computer and cell phone technology will offer opportunities to expand capabilities to more people around the world and also expand the use of artificial intelligence. Personalized content is also key to digital learning technology. An adaptive system based on big data and artificial intelligence is now at hand. We can determine the right way of learning English according to the needs and schedules of each user.

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