

Aplicaciones Ofimáticas (Office Applications)

Unit 08. Interacting with artificial intelligences



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Nomenclature

Throughout this topic different symbols will be used to distinguish important elements within the content. These symbols are:

 **Important**

 **Attention**

 **Interesting**

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UNIT 08. INTERACTING WITH ARTIFICIAL INTELLIGENCES

1. INTRODUCTION

Artificial Intelligence (AI) is a discipline of computer science that is based on the idea that a machine can be programmed to perform tasks that normally require human intelligence, such as pattern recognition, learning, decision-making, and solving complex problems.

The main goal of AI is to create systems that can act and make decisions based on data and algorithms, rather than being controlled by a human. This can be done through different techniques and approaches, such as machine learning, robotics, computer vision, and natural language processing.

AI has been successfully applied in a wide variety of sectors, including medicine, finance, manufacturing, and customer service. For example, AI systems can help doctors diagnose diseases faster and more accurately, or banks detect financial fraud more effectively.

In short, AI is a constantly evolving discipline that has the potential to revolutionize the way people and businesses work and live.

2. MOST TYPICAL PRODUCTS THAT USE ARTIFICIAL INTELLIGENCE

The main products that use artificial intelligence are:

- **Content generator:** generate text, images, audio, video, etc. depending on interactions with a user or with other software.
- **Virtual assistants:** They are programs designed to help users with everyday tasks like sending messages, making calls, scheduling appointments, etc.
- **Voice recognition systems:** are used to translate the human voice into text and perform actions based on voice commands.
- **Chatbots:** are programs that imitate a human conversation to provide information and help to online users.
- **Recommender systems:** use machine learning to recommend products, services, or content to users based on their interests and preferences.
- **Automatic translation systems:** use machine learning techniques to translate text or speech from one language to another.
- **Data analysis systems:** use machine learning techniques to analyse large amounts of data and extract useful information
- **Computer vision systems:** they use machine learning techniques to analyse images and extract useful information.
- **Security systems:** They use machine learning techniques to detect potential threats or anomalies in real time.
- **Industrial robotics:** robots that use artificial intelligence techniques to perform tasks in a controlled environment.

3. TEXT GENERATORS

Artificial intelligence text generators work using deep learning models such as the GPT (Generative Pre-trained Transformer) model. These models are trained on large amounts of previously written text and then use that information to autonomously generate new text.

The text generation process is based on the prediction of the following words or phrases, given a previous context or "prompt" (text string with information for the system). The model considers the previous words and the probabilities associated with the following words to generate a coherent sequence of text.

Text generators can be used for a variety of tasks, such as news generation, text summaries, machine translations, poetry or fiction creation, among others. However, it is important to note that the quality of the generated text is highly dependent on the quantity and quality of data used to train the model. Therefore, the results can vary significantly and can sometimes be of low quality or inconsistent.

One of the best known implementations is the text generation system with dialogue called ChatGPT <https://chat.openai.com/chat> , although there are other interesting ones such as Perplexity AI <http://perplexity.ai/>

Here are some links with tips and "prompts" already made to use ChatGPT:

- <https://mpost.io/100-best-chatgpt-prompts-to-unleash-ais-potential/>
- <https://github.com/f/awesome-chatgpt-prompts/>
- <https://saasradar.net/prompt-chatgpt/>
- <https://elplacerdelseo.com/los-mejores-prompts-chatgpt-para-seo/>

4. ETHICS WHEN USING ARTIFICIAL INTELLIGENCE TOOLS

The use of artificial intelligence tools, such as ChatGPT or similar, poses some ethical challenges and responsibilities for developers, users and society in general: inclusive and diverse representation, content responsibility, proper use of the tool and privacy.

In your specific case, the use of tools such as ChatGPT by students poses some ethical challenges and important responsibilities. Some of these challenges include:

- **Academic integrity:** students must ensure that their work is original and does not misappropriate the work of others. If using information generated by tools such as ChatGPT, it is important to properly acknowledge and cite sources.
- **Honesty and transparency:** students must be honest and transparent about their use of tools like ChatGPT in their work. If information generated by these tools is used, it is important to clearly identify that information as generated by an artificial intelligence model.
- **Responsibility for information:** language models can spread misleading or harmful information, so it is important that students take responsibility for checking and correcting the information used in their work.
- **Ethics and sustainability:** It is important that students consider the ethical and sustainable implications of using tools like ChatGPT and take steps to ensure their responsible and sustainable use.

5. DIRECTORIES WITH TOOLS THAT USE ARTIFICIAL INTELLIGENCE

There are some pages that collect, as a directory, different links to tools that use artificial intelligence. The most popular are:

- <https://aifindy.com/>
- <https://www.futurepedia.io/>