INGLÉS TÉCNICO IV

2° 2° Cuatrimestre

CENTRO POLITÉCNICO SUPERIOR MALVINAS ARGENTINAS

Natural Language Processing (NLP)

Natural language processing (NLP) is a field within artificial intelligence (AI) focused on enabling computers to understand, interpret, and generate human language. This technology is developed by researchers who aim to make computers read and understand text as humans do. NLP combines computational linguistics with machine learning and deep learning algorithms to process natural language data.

There are many applications of NLP in today's technology-driven world. One common application is chatbots, which use NLP to communicate with users in a human-like manner. These chatbots can answer questions, provide information, and assist with various tasks, making customer service more efficient and accessible. Another significant application is translation tools, such as Google Translate, which use NLP to translate text from one language to another, breaking down language barriers and facilitating global communication.

Sentiment analysis is another important application of NLP. It is used to determine the sentiment or emotion behind a piece of text, such as a review or a social media post. This helps businesses understand customer feedback and improve their products or services. Additionally, NLP is used in voice recognition systems, like virtual assistants (e.g., Siri and Alexa), which understand and respond to spoken language, making technology more interactive and user-friendly.

Overall, NLP plays a crucial role in enhancing human-computer interaction, making it possible for machines to understand and respond to human language in a meaningful way. As research and development in this field continue to advance, we can expect even more innovative applications that will further integrate AI into our daily lives.

Reading Exercises

True or False:

1. NLP is a field of artificial intelligence.

2. NLP is used to help computers understand human language.

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3. Only chatbots are created using NLP.
4. Translation tools do not use NLP.
5. NLP helps in voice recognition systems like Siri and Alexa.

Multiple Choice:

1. What does NLP stand for?
   - a) Natural Learning Processing
   - b) Natural Language Processing
   - c) Network Language Processing
   - d) Neural Language Processing
2. Who develops NLP?
   - a) Teachers
   - b) Scientists
   - c) Researchers
   - d) Programmers
3. Which of the following is NOT an application of NLP?
   - a) Chatbots
   - b) Translation tools
   - c) Sentiment analysis
   - d) Manual typewriters
4. What do translation tools using NLP do?
   - a) Translate text from one language to another

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- b) Provide weather updates
- c) Play music
- d) Schedule appointments

5. How does NLP benefit voice recognition systems?
    - a) By making them faster
    - b) By allowing them to understand spoken language
    - c) By improving battery life
    - d) By increasing storage capacity

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