

# ENGLISH CODE ARTIFICIAL INTELLIGENCE

**INTEGRATOR- Module 1**

**Unit 2**



# CONTEXTUALIZATION OF MY LEARNING

In this Integrator module, students will delve into Natural Language Processing (NLP), and its applications to enrich AI-related reading, and writing skills. The focus includes understanding challenges like ambiguity and bias in NLP, and building a robust vocabulary with terms such as tokenization and part-of-speech tagging. Exploring deep learning in NLP, students will grasp concepts like word embeddings and recurrent neural networks. By the end of the course, they'll adeptly navigate the lexicon associated with neural network architectures, and layers in language processing, ensuring a comprehensive understanding of NLP within the AI context.



# General objective

## UNIT 2

- Apply acquired knowledge to practical scenarios, fostering the ability to recognize and utilize NLP techniques in real-world contexts.
- Cultivate critical thinking skills by analyzing, evaluating, and solving problems related to NLP, enhancing learners' capacity to navigate challenges in language processing technologies.

## SKILLS TO DEVELOP

- Linguistic competence.
- Pragmatic competence.
- Sociolinguistic competence.
- Topical Competence.

**Linguistic competence:** develop proficiency in understanding and using the language structures, vocabulary, and grammar relevant to the context of Natural Language Processing (NLP).

**Pragmatic Competence:** acquire the ability to apply language skills effectively in various communicative situations within the field of NLP, considering context, intent, and appropriate language use.

**Sociolinguistic Competence:** gain awareness and skills in adapting language use to different social and cultural contexts within the broader domain of Natural Language Processing.

**Topical Competence:** demonstrate a comprehensive understanding of key topics, concepts, and terminologies specific to NLP, enabling effective communication and collaboration in the field.

## UNIT 2: KEY TERMS OF NLP

Execution time: 4 hours.

### APPROACH OF THE SESSION

- 1) Socialize the technology idiom of the day.
- 2) Before the reading activity, explain what reading in context is.
- 3) Warm up activity: Match key terms and definitions.
- 4) Reading comprehension activity: "Natural Language Processing Key Terms, Explained."
- 5) Crossword activity based on the reading text (game).
- 6) Fill in the gap activity.
- 7) Reading comprehension activity #2: "6 NATURAL LANGUAGE PROCESSING TERMS YOU NEED TO KNOW."
- 8) Game: Yes/No questions based on the reading text.
- 9) Multiple choice activity: reading #2.
- 10) Socialize key words about: Tokenization.
- 11) Reading comprehension activity #3: "What is Tokenization?"
- 12) Kahoot activity.

### MATERIALS

- Reading: "Natural Language Processing Key Terms, Explained":  
<https://www.kdnuggets.com/2017/02/natural-language-processing-key-terms-explained.html>
- Reading:  
"Natural language processing terms you need to know."  
<https://shecancode.io/blog/6-natural-language-processing-terms-you-need-to-know>
- Reading: What is tokenization?:  
<https://www.mckinsey.com/featured-insights/mckinsey-explainers/what-is-tokenization>
- Kahoot: <https://create.kahoot.it/details/0cc19134-2789-480d-aca9-a9df9b82f90e>



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