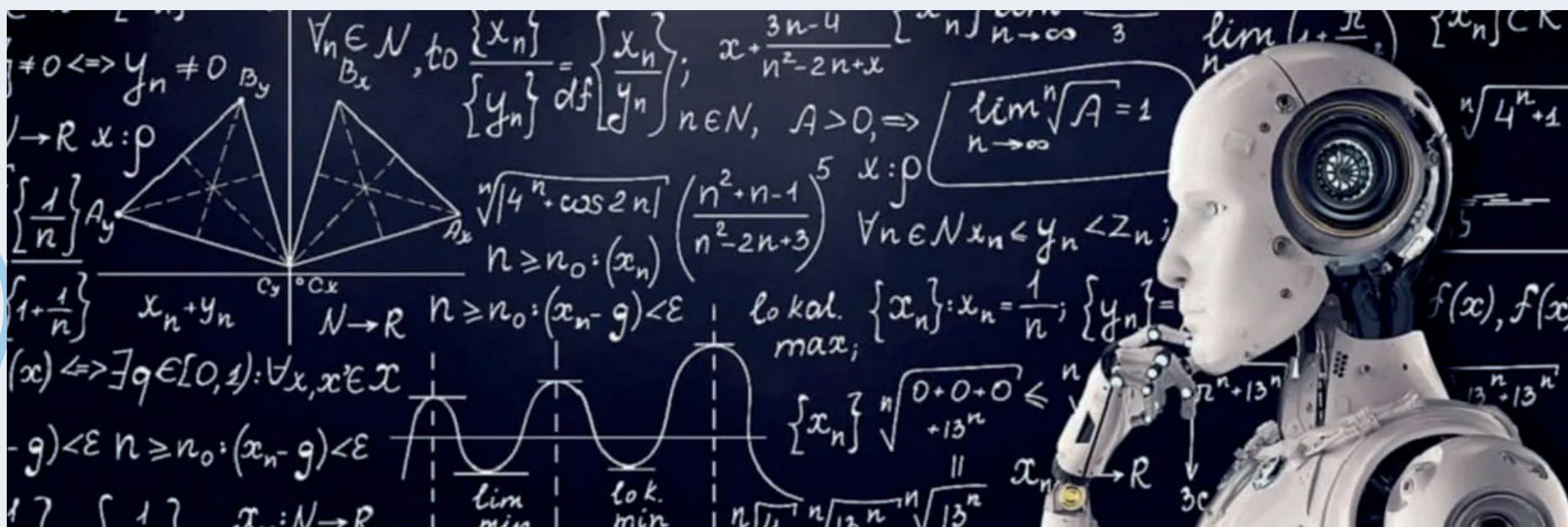


# ENGLISH CODE ARTIFICIAL INTELLIGENCE

**INTEGRATOR- Module 1**

**Unit 6**





# General objective

## UNIT 6

To deepen students' understanding of natural language processing (NLP) challenges, including issues of ambiguity and bias, and to explore emerging concepts in AI research.

Develop the language skills and knowledge necessary to navigate and contribute meaningfully to the evolving landscape of AI, fostering critical analysis and awareness of ethical considerations in the field.

## SKILLS TO DEVELOP

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

**Linguistic Competence:** Develop proficiency in the specialized language and terminology associated with natural language processing (NLP) and emerging concepts in AI research. Enhance skills in reading, interpreting, and producing texts related to challenges like ambiguity and bias in NLP.

**Pragmatic Competence:** Acquire the ability to apply theoretical knowledge of NLP challenges and AI research concepts in practical situations. Develop pragmatic skills in identifying and addressing linguistic ambiguities and biases within the context of AI applications.

**Sociolinguistic Competence:** Understand the societal implications of NLP challenges and emerging AI concepts. Explore how language technologies impact various social contexts, considering issues such as inclusivity, fairness, and the ethical use of AI in different communities.

**Topical Competence:** Gain in-depth knowledge of key topics in the field of NLP, including challenges related to ambiguity and bias, as well as staying informed about the latest developments and trends in AI research. Develop the ability to critically analyze and discuss the ethical dimensions of AI technologies in diverse contexts.

# UNIT 6: Terms discussing challenges like ambiguity and bias in NLP, and emerging concepts in AI research

Execution time: 4 hours.

## APPROACH OF THE SESSION

- 1) Hangman game.
- 2) Keywords socialization.
- 3) Reading comprehension: "Ambiguity in NLP"
- 4) True/False activity.
- 5) Fill in the blank vocabulary activity.
- 6) Discussion questions about READING #2
- 7) Reading comprehension: "The Art of Understanding Linguistic Ambiguity: NLP's Greatest Challenge"
- 8) Multiple choice activity reading #2.
- 9) Socialization of vocabulary reading activity #3
- 10) Reading activity #3: "AI in 2023: Emerging Trends and Future Possibilities"
- 11) Multiple choice activity.

## MATERIALS

- Reading: "Ambiguity in NLP":  
<https://jrodthoughts.medium.com/ambiguity-in-natural-language-processing-15f3e4706a9a>

Reading: "The Art of Understanding Linguistic Ambiguity: NLP's Greatest Challenge":  
<https://dezzai.com/en/blog/understanding-linguistic-ambiguity-impact-chat-gpt/>

Reading #3: "AI in 2023: Emerging Trends and Future Possibilities":  
<https://www.linkedin.com/pulse/ai-2023-emerging-trends-future-possibilities-dave-balroop-z9uec#:~:text=Several%20key%20trends%20are%20shaping,%2C%20computer%20vision%2C%20and%20robotics.&text=Machine%20learning%2C%20a%20subset%20of,the%20forefront%20of%20AI%20development.>

# UNIT 6: Terms discussing challenges like ambiguity and bias in NLP, and emerging concepts in AI research

Execution time: 4 hours.

## APPROACH OF THE SESSION

- 12) Socialization vocabulary reading activity #4
- 13) Reading activity #4: "Quantum Artificial Intelligence Is Closer Than You Think"
- 14) Matching heading definition
- 15) True/False activity.

## MATERIALS

Reading #4: "Quantum Artificial Intelligence Is Closer Than You Think":  
<https://www.forbes.com/sites/jonathanreichental/2023/11/20/-quantum-artificial-intelligence-is-closer-than-you-think/?sh=6a5f91c48182>



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