

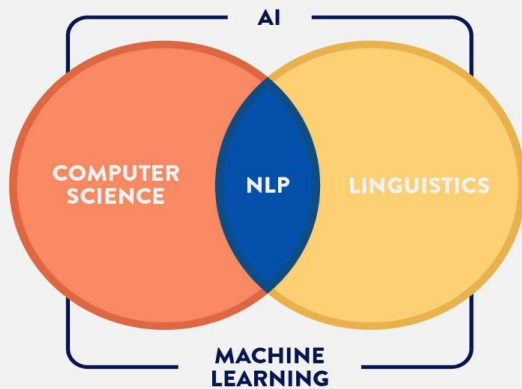


Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

WHAT IS NATURAL LANGUAGE PROCESSING?

The interdisciplinary field of computer science and linguistics.
NLP is the ability for computers to understand human language.



Challenges in Natural Language Processing (NLP)

Explore the fascinating world of NLP and discover the hurdles researchers and developers face in understanding human language.

The Definition of NLP

NLP, a branch of artificial intelligence, focuses on enabling computers to understand human language. But defining language. But defining NLP is no easy task.



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Domain-Specific Language Understanding

Understanding industry-specific jargon and terminology adds an extra layer of complexity to NLP tasks, requiring domain-specific knowledge.

Ambiguity in Language

Words and phrases often have multiple meanings, making it challenging for NLP models to accurately interpret context and intent.



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Evaluation and Measuring Performance

Assessing the performance of NLP models is a critical challenge, as it requires defining appropriate evaluation metrics for complex language tasks.



Data Bias Challenges

Data used to train NLP models may contain biases, leading to skewed results and perpetuating societal inequalities.