

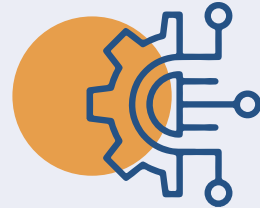
Natural Language Processing (NLP):

NLP refers to a branch of artificial intelligence that focuses on the interaction between computers and humans through natural language. It involves the ability of machines to understand, interpret, and generate human-like text, enabling a range of applications in education, communication, and analysis.



EdTech:

Short for Educational Technology, EdTech encompasses the use of technology, particularly digital tools and resources, to enhance and support the learning and teaching process. In the context of the reading, EdTech is discussed in relation to the transformative role of NLP in education.



Semantic Search:

Semantic search involves understanding the meaning and intent behind a user's search query rather than relying solely on matching keywords. In the context of EdTech, NLP powers semantic search in educational platforms, enabling more precise and context-aware content discovery.



Sentiment Analysis:

Sentiment analysis is the process of using natural language processing, text analysis, and computational linguistics to identify and extract subjective information from textual data. In education, sentiment analysis can be applied to understand how learners emotionally respond to educational content.

Adaptive Learning:

Adaptive learning refers to an educational approach that uses technology to tailor educational experiences to the individual needs of each student. NLP plays a crucial role in adaptive learning by analyzing student interactions, providing real-time feedback, and customizing learning pathways based on individual progress and preferences.

