

Supplementary

Appendix 1 List of Key Terms

1. Convolutional Neural Networks (CNNs) are a specialized class of deep learning models explicitly designed to process structured grid data, such as images and video by utilizing mathematical operations called convolutions alongside filtering layers to automatically identify spatial hierarchies of features (119).
2. Deep learning is a subset of machine learning that utilizes multi-layered artificial neural networks to extract and process high-level features and patterns from raw data. It enables computers to automatically learn from experience and solve complex tasks without being explicitly programmed (120).
3. Natural Language Processing (NLP) is an interdisciplinary branch of artificial intelligence concerned with giving computers the ability to understand, interpret, and generate human language by combining computational linguistics with statistical machine learning models (121).

References

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121. Chowdhary K. Natural language processing. In *Fundamentals of artificial intelligence*. Springer, New Delhi; 2020:603-49.