The Journal of Information Technology and Digital Solutions (JITDS)

Volume 1, Number 2, 2025

Natural Language Processing for Intelligent Digital Applications

DEMO / THEME CONTENT

Authors

[Author Full Name 1] — [Institution Name], Pakistan — author1@example.com

[Author Full Name 2] — [Institution Name], Pakistan — author2@example.com

Abstract

Natural Language Processing enables computer systems to process, understand, and generate human language. This paper reviews NLP applications in chatbots, text classification, sentiment analysis, information retrieval, and automated content processing.

Keywords

Natural Language Processing; NLP; Artificial Intelligence; Chatbots; Text Mining

Main Content

1. NLP supports search, translation, conversational interfaces, and text analysis.

2. Applications include sentiment analysis, named-entity recognition, text classification, question answering, and information retrieval.

3. Responsible NLP development requires appropriate datasets, evaluation, privacy protection, and human oversight.

References

1. Jurafsky, D., & Martin, J. H. (2023). Speech and Language Processing. Draft edition.

2. Manning, C. D., Raghavan, P., & Schütze, H. (2008). Introduction to Information Retrieval. Cambridge University Press.

3. Devlin, J., et al. (2019). BERT: Pre-training of deep bidirectional transformers for language understanding. NAACL-HLT.

Sample content created only for demonstrating the JITDS OJS theme and publishing workflow. It is not a genuine research publication.