IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal



Volume 5, Issue 13, April 2025

Machine Learning - Driven System for Disinformation Detection and Classification

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Abstract: The rapid spread of disinformation online has become a major global concern, undermining public trust and influencing critical societal decisions. This project presents a machine learning-driven system designed to detect and classify disinformation in digital content. Utilizing the Passive Aggressive Classifier (PAC), the system analyzes text data to identify patterns commonly associated with false information. By incorporating natural language processing (NLP) techniques, the model classifies content as either true or false based on its textual features and the credibility of its source. The project aims to develop a scalable, real-time solution for disinformation detection, providing users with an automated tool to assess the reliability of information found online. The proposed system offers a promising approach to combating the spread of disinformation, with potential applications across social media, news websites, and digital platforms

Keywords: Disinformation Detection, Machine Learning, Natural Language Processing, Passive Aggressive Classifier, Real-time Information Classification, Text Classification, Web Application





