

(http://ipindia.nic.in/index.htm)



Patent Search

Invention Title	DEEP LEARNING-BASED FRAMEWORK FOR REAL-TIME PLAGIARISM IDENTIFICATION AND ANALYSIS IN DIGITAL CONTENT
Publication Number	42/2023
Publication Date	20/10/2023
Publication Type	INA
Application Number	202331052769
Application Filing Date	06/08/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N0003080000, G06N0003040000, G06F0040300000, G06Q0050180000, G06F0003010000

Inventor

Name	Address	Country
Dr. Rajat Pandit	Assistant Professor, Department of Computer Science, West Bengal State University, Barasat, West Bengal, India, Pincode: 700126	India
Mr. Mohammed Ehsan Ullah Shareef	19-5-32/57, Mahmood Nagar, Kishan Bagh, Hyderabad, Telangana, India, Pincode: 500064	India
Dr. N. Srimannarayana	Professor, Department of Engineering Mathematics, College of Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Andhra Pradesh, India, Pincode: 522302	India
Ms. Reena Chopra	Assistant Professor, Department of Management Studies, T John College, Bangalore, Karnataka, India, Pincode: 560083	India
Dr. Shailendra Kumar Mittal	Professor, Electrical Engineering Department, GH Raisoni College of Engineering & Management, Pune, Maharashtra, India, Pincode: 412207	India
Dr. Yerrabolu Kusuma Kumari	Associate Professor, Department of English, Chaitanya Degree & P.G. College for Women, Visakhapatnam, Andhra Pradesh, India, Pincode:530 026	India
Dr. Surendra Talari	Associate Professor, Department of Mathematics, GITAM Deemed to be University, Visakhapatnam, Andhra Pradesh, India, Pincode: 530 045	India
Dr. Nellore Manoj Kumar	Independent Researcher, Founder and CEO, Infinite Research, B.O., 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India
Mr. Srikanth. S	Assistant Professor, Electrical and Electronics Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500 043	India
Mrs. M. Madhavi	Assistant Professor, Department of Artificial Intelligence, Anurag University, Ghatkesar, Medchal, Telangana, India, Pincode: 500039	India

Applicant

Name	Address	Country
Dr. Rajat Pandit	Assistant Professor, Department of Computer Science, West Bengal State University, Barasat, West Bengal, India, Pincode: 700126	India
Mr. Mohammed Ehsan Ullah Shareef	19-5-32/57, Mahmood Nagar, Kishan Bagh, Hyderabad, Telangana, India, Pincode: 500064	India
Dr. N. Srimannarayana	Professor, Department of Engineering Mathematics, College of Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Andhra Pradesh, India, Pincode: 522302	India
Ms. Reena Chopra	Assistant Professor, Department of Management Studies, T John College, Bangalore, Karnataka, India, Pincode: 560083	India
Dr. Shailendra Kumar Mittal	Professor, Electrical Engineering Department, GH Raisoni College of Engineering & Management, Pune, Maharashtra, India, Pincode: 412207	India
Dr. Yerrabolu Kusuma Kumari	Associate Professor, Department of English, Chaitanya Degree & P.G. College for Women, Visakhapatnam, Andhra Pradesh, India, Pincode:530 026	India
Dr. Surendra Talari	Associate Professor, Department of Mathematics, GITAM Deemed to be University, Visakhapatnam, Andhra Pradesh, India, Pincode: 530 045	India
Dr. Nellore Manoj Kumar	Independent Researcher, Founder and CEO, Infinite Research, B.O., 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India
Mr. Srikanth. S	Assistant Professor, Electrical and Electronics Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500 043	India
Mrs. M. Madhavi	Assistant Professor, Department of Artificial Intelligence, Anurag University, Ghatkesar, Medchal, Telangana, India, Pincode: 500039	India

Abstract:

The invention presents a novel framework for identifying and analysing plagiarism in digital content, employing advanced deep learning algorithms, artificial neural n natural language processing techniques. Capable of analysing various forms of content including text, audio, visual, and multimedia, the framework detects instances plagiarism in real time. Beyond mere detection, it categorizes and analyses the types of plagiarism involved, understanding subtle nuances like paraphrasing and idea. The real-time component enables immediate detection and response, making it valuable in scenarios like live broadcasting and online education. Additionally, the system comprehensive reporting and analysis features, is adaptable to different languages and data formats, and can be integrated with existing platforms across various do invention represents a significant advancement in content analysis and intellectual property protection, providing a nuanced and real-time approach to plagiarism de the digital age.

Complete Specification

Description: The present invention relates generally to the area of computational linguistics, information retrieval, and machine learning. More specifically, the invenpertains to a Deep Learning-Based Framework for Real-Time Plagiarism Identification and Analysis in Digital Content.

Background of the invention:

In the modern age of digitalization, the creation and dissemination of content across various platforms have become widespread and easy to access. As a result, the copying or mimicking someone else's work without proper attribution, commonly known as plagiarism, has become a pervasive issue in numerous fields, including academia, journalism, arts, and business. Traditional methods of plagiarism detection, such as manual review or simple keyword matching, have proven inadequate consuming, and error-prope.

In an environment where content is constantly created and shared, the existing systems' inability to accurately detect and analyze plagiarism in real time has create significant challenges in maintaining academic integrity, preserving intellectual property rights, and upholding ethical standards in professional practices. The short of the existing technologies are related to their limited scope, lack of scalability, inefficiency in handling large-scale data, and the constraints in detecting complex fo plagiarism, such as paraphrasing or idea plagiarism.

The rapid advancement of machine learning, particularly deep learning, has offered a promising avenue to address these challenges. Deep learning algorithms have their prowess in understanding complex patterns and relationships within data, providing a solid foundation for a system capable of detecting plagiarism in a more nuanced and efficient manner.

The integration of natural language processing techniques has further empowered the capability to analyze text content, understand semantic relationships, and re

View Application Status



Terms & conditions (http://ipindia.gov.in/terms-conditions.htm) Privacy Policy (http://ipindia.gov.in/privacy-policy.htm) Copyright (http://ipindia.gov.in/copyright.htm) Hyperlinking Policy (http://ipindia.gov.in/hyperlinking-policy.htm) Accessibility (http://ipindia.gov.in/accessibility.htm) Archive (http://ipindia.gov.in/archive.htm) Contact Us (http://ipindia.gov.in/contact-us.htm) Help (http://ipindia.gov.in/help.htm)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019