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Patent Search

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Inventor					
Name	Addr	ess	Country	Nat	
Dr. Nellore Manoj Kumar	Indep Andh	lependent Researcher, Founder & CEO, Infinite-Research Organization, B.O, 15-225, Gollapalem, Venkatagiri, Tirupati District, dhra Pradesh, India, Pincode: 524132		Indi	
Mr. Ajai Singh	Assis 2480	sistant Professor, Department of Management, Doon Business School, Mi 122, Selaqui, Dehradun, Uttarakhand, India, Pincode: 8011		Indi	
Dr. Hema Jagadish	Asso	sociate Professor, Department of ISE, Bangalore Institute of Technology, Bangalore, Karnataka, India, Pincode: 560004		Indi	
Ms. Sonampreet Kaur	Resea	esearch Scholar, Amity Institute of Biotechnology, Amity University, Haryana, Manesar, India, Pincode: 122412		Indi	
Dr. Gaurav Agrawal	Assis Pincc	Assistant Professor, Department of Management Studies, Anand Engineering College, Keetham, Agra, Uttar Pradesh, India, Pincode: 281004		Indi	
Dr. Prabhakar Krishnan	Resea Pinco	arch Scientist, Department of Cybersecurity, Amrita Vishwa Vidyapeetham - Amritapuri Campus, Kollam, Kerala, India, ode: 690525	U.S.A.	U.S.	
Dr. Meenakshi Choudhary	Assis India	tant Professor, University Computer Centre, IBS, Khandari Campus, Dr Bhimrao Ambedkar University, Agra, Uttar Pradesh, J. Pincode: 202002	India	Indi	
Mr. B. Siva Sankar	Assis 5000	Assistant Professor, Department of IT, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043		Indi	
Applicant					

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Intellectual Property India

Name	Address	Country	Nat
Dr. Nellore Manoj Kumar	Independent Researcher, Founder & CEO, Infinite-Research Organization, B.O, 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132		Indi
Mr. Ajai Singh	Assistant Professor, Department of Management, Doon Business School, Mi 122, Selaqui, Dehradun, Uttarakhand, India, Pincode: 248011	India	Indi
Dr. Hema Jagadish	Associate Professor, Department of ISE, Bangalore Institute of Technology, Bangalore, Karnataka, India, Pincode: 560004		Indi
Ms. Sonampreet Kaur	Research Scholar, Amity Institute of Biotechnology, Amity University, Haryana, Manesar, India, Pincode: 122412		Indi
Dr. Gaurav Agrawal	Assistant Professor, Department of Management Studies, Anand Engineering College, Keetham, Agra, Uttar Pradesh, India, Pincode: 281004		Indi
Dr. Prabhakar Krishnan	Research Scientist, Department of Cybersecurity, Amrita Vishwa Vidyapeetham - Amritapuri Campus, Kollam, Kerala, India, Pincode: 690525		U.S.
Dr. Meenakshi Choudhary	Assistant Professor, University Computer Centre, IBS, Khandari Campus, Dr Bhimrao Ambedkar University, Agra, Uttar Pradesh, India, Pincode: 202002		Indi
Mr. B. Siva Sankar	Assistant Professor, Department of IT, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India	Indi

Abstract:

Our invention presents a novel system for combating deep fake content on social media platforms using ensemble machine learning techniques. The system analyzes me content across various modalities, leveraging multiple machine learning models to detect indicators of manipulation. Through adaptive learning mechanisms, it continuou refines its algorithms to stay ahead of evolving threats. Advanced semantic analysis and user authentication features enhance content verification, promoting transparenc accountability. By empowering users with tools to discern fact from fiction, the system fosters a more informed and resilient online community. Its integration into existing media platforms offers seamless implementation, improving content moderation processes and enhancing user experiences. Overall, our invention represents a significar advancement in cybersecurity and artificial intelligence, providing a multifaceted defense against the spread of deep fake content and safeguarding the integrity of digital discourse.

Complete Specification

Description: The proposed system falls within the field of cybersecurity and artificial intelligence. It aims to address the pervasive issue of deep fake content proliferating social media platforms. By leveraging ensemble machine learning techniques, the system employs a multifaceted approach to identify and combat the spread of manipulated media. Through the amalgamation of various machine learning models and algorithms, it enhances the accuracy and reliability of detecting deep fake content thereby safeguarding users from misinformation and potential harm. The invention involves advanced pattern recognition, anomaly detection, and semantic analysis to distinguish between authentic and manipulated media with high precision. Its patented techniques offer a robust defense mechanism against the evolving sophisticatior deep fake technology, thereby preserving the integrity and trustworthiness of digital content in social media landscapes.

In the digital age, social media has become an integral part of our daily lives, facilitating communication, information sharing, and community building on a global scale. However, alongside its myriad benefits, social media platforms have also become breeding grounds for the dissemination of misinformation, propaganda, and manipula content. One particularly insidious form of digital deception is the proliferation of deep fake content, where artificial intelligence is used to create highly convincing but fabricated videos, images, and audio recordings.

The rise of deep fake technology poses significant challenges to the integrity and trustworthiness of digital content, potentially undermining public discourse, spreading false information, and even causing harm to individuals and institutions. Traditional methods of content verification and moderation struggle to keep pace with the rapic evolution of deep fake technology, leading to a pressing need for innovative solutions to combat this growing threat.

In response to this urgent challenge, a team of researchers and engineers have proposed a novel system leveraging the power of ensemble machine learning to detect a

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