



Details of Publications in any other referred Journals

Annexure IV-D



Publication in Referred Journal for Academic session 2024-25

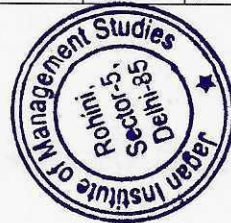
S.No	Faculty Name	Journal	Topic of the Paper	H Index	Indexing	Weblink	ISSN No.	Year of publication
1	Dr. Deepshikha Aggarwal	The Journal of media, culture and communication	Exploring the Role of AI for Enhancement of Social Media Marketing	9	Peer Reviewed Journal	https://journal.hmjournals.com/index.php/JMCC/article/view/4675	ISSN: 2799-1245	01-08-2024
2	Dr. Deepak Chahal	International Scientific Journal of Engineering and Management (ISJEM)	Exploring the Frontiers of Quantum Machine Learning: A New Era in AI and Computation	10	Google scholar, Cross ref	https://isjem.com/download/exploring-the-frontiers-of-quantum-machine-learning-a-new-era-in-ai-and-computation/	ISSN: 2583-6129	2025
3	Dr. Deepak Chahal	INTERNATIONAL JOURNAL OF PROGRESSIVE RESEARCH IN ENGINEERING MANAGEMENT AND SCIENCE (IJPREAMS)	THE RISE OF EXPLAINABLE AI (XAI): ENHANCING TRANSPARENCY, TRUST, AND ACCOUNTABILITY IN MACHINE LEARNING MODELS	10	Google scholar, Cross ref	https://www.ijprems.com/paperdetail.php?paperid=e37e971c71756c6b6beb5c074147aa48&title=The+Rise+of+Explainable+AI+(XAI)+:+Enhancing+Transparency,+Trust,+and+Accountability+in+Machine+Learning+Models&authp=L	ISSN: 2583-1062	2025
4	Dr. Latika Kharb	International Scientific Journal of Engineering and Management (ISJEM)	Exploring the Frontiers of Quantum Machine Learning: A New Era in AI and Computation	13	Google scholar, Cross ref	https://isjem.com/download/exploring-the-frontiers-of-quantum-machine-learning-a-new-era-in-ai-and-computation/	ISSN: 2583-6129	2025
5	Dr. Latika Kharb	INTERNATIONAL JOURNAL OF PROGRESSIVE RESEARCH IN ENGINEERING MANAGEMENT AND SCIENCE (IJPREAMS)	THE RISE OF EXPLAINABLE AI (XAI): ENHANCING TRANSPARENCY, TRUST, AND ACCOUNTABILITY IN MACHINE LEARNING MODELS	13	Google scholar, Cross ref	https://www.ijprems.com/paperdetail.php?paperid=e37e971c71756c6b6beb5c074147aa48&title=The+Rise+of+Explainable+AI+(XAI)+:+Enhancing+Transparency,+Trust,+and+Accountability+in+Machine+Learning+Models&authp=L	ISSN: 2583-1062	2025
6	Dr. Archana Saxena	The Journal of media, culture and communication	Exploring the Role of AI for Enhancement of Social Media Marketing	7	Peer Reviewed Journal	https://journal.hmjournals.com/index.php/JMCC/article/view/4675	ISSN: 2799-1245	01-08-2024
7	Dr. Chetna Laroia	Asian Journal of Advanced Research & Report	Towards a Greener Future: Addressing Infrastructural Challenges in E-waste Management	5	Google Scholar	https://hal.science/hal-05114462/		01-06-2025
8	Dr. Shivani Vats	International Research Journal of Humanities and Interdisciplinary Studies	The Future of 6G Wireless Application: Challenges and Opportunities	2	Peer Reviewed Journal	https://doi.org/doi:10.2582-8568	ISSN: 2582-8568	01-05-2025
9	Dr. Shivani Vats	International Research Journal of Humanities and Interdisciplinary Studies	Geopolitical Implications of DeepSeek's Rise: The U.S.-China AI Race	2	Peer Reviewed Journal	https://doi.org/doi:10.2582-8568	ISSN: 2582-8568	01-06-2025
10	Dr. Ruchika Sharma	Multidisciplinary journal : Swamirman Sunirmit Publications of Research	REA Steganography and Steganalysis		Peer Reviewed Journal	https://www.swamirmanconsultancy.in/pubdec2024/SSPR_dec2024_4.pdf	ISSN:2583-2654	01-12-2024
11	Dr. Ruchika Sharma	International Journal of Science and technology	Prevailing Trends and Innovations in Machine Learning Techniques and Applications		Peer Reviewed Journal	https://www.ijsat.org/submit-research-paper.php	E-ISSN: 2229-7677	Under publication
12	Dr. Nitin Saraswat	International Journal of current science	AI Generated Media and Public Trust : A comprehensive analysis of perception , Acceptance and sentiment trends	1	Peer Reviewed Journal	https://ripen.org/jicpub/papers/IJCSP25B1007.pdf	ISSN - 2250-1770	01-04-2025

13	Dr. Nitin Saraswat	International Journal of Research and Analytics Reviews (IJRAR)	Emotio Mining on YouTube : An Intelligent system for real Time comment sentiment classification	1	Peer Reviewed Journal	https://www.researchgate.net/publication/395135060_Issue_2_www.ijrar.org_E-ISSN_2348-1269_P-ISSN_2349-5138_IJAR250556538	ISSN - 2348 - 1269	01-05-2025
14	Dr. Nitin Saraswat	International Journal of creative research thoughts(IJCRT)	Smart Tour : A scalable AI- Enable Web Platform for seamless Tour and Travel management research paper.	1	Peer Reviewed Journal	https://www.ijcrt.org/papers/IJCRT2505565.pdf	ISSN - 2320-2882	01-05-2025
15	Dr. Nitin Saraswat	International Journal of creative research thoughts(IJCRT)	Smart Cell : An AI-Powered Web Solution for Real-Time Prisoner Face Matching and Custodial Management	1	Peer Reviewed Journal	https://ijrar.org/papers/IJAR250556538.pdf	ISSN - 22348-1269	01-05-2025
16	Dr. Nitin Saraswat	International Journal of creative research thoughts(IJCRT)	A Comprehensive Php-Mysql Based Biometric Integrated Online Driving License Generation and Management System	1	Peer Reviewed Journal	https://ijrn.org/ijcrt/papers/IJCSP25051111.pdf	ISSN - 2250-1770	01-05-2025
17	Dr. Nitin Saraswat	International Journal of creative research thoughts(IJCRT)	AI-Enabled Real-Time Chat Application With Intelligent Word Prediction Using MERN Stack	1	Peer Reviewed Journal	file:///C:/Users/ankita/Downloads/IJCRT2505934.pdf	ISSN - 2320-2882	01-05-2025
18	Dr. Nitin Saraswat	International Journal of creative research thoughts(IJCRT)	AI-Augmented Intelligent Stock Management and Recommendation System Using MERN Stack with Real-Time Analytics and Secure User Interactions	1	Peer Reviewed Journal	https://www.ijetir.org/papers/IJETIR2505650.pdf	ISSN - 2349-5162	01-05-2025
19	Ms. Aparna Raj	International Journal of Science and technology	Prevailing Trends and Innovations in Machine Learning Techniques and Applications		Peer Reviewed	https://www.ijstat.org/submit-research-paper.php	E-ISSN: 2229-7677	Under publication
20	Dr. Praveen Arora	International Journal of Progressive Research In Engineering Management And Science	Big data Revolution : Transforming Different Sectors	9	Peer Reviewed Journal	https://www.doi.org/10.58257/IJPREMS35372	E-ISSN - 2583 - 1062	01-07-2024
21	Dr. Praveen Arora	Knowledge-Based Systems	An Intelligent Zero-day Attack Detection System using Unsupervised Machine Learning for enhancing Cyber security	9	Peer Reviewed Journal	https://www.sciencedirect.com/science/article/abs/pii/S0950705125008792?via=ihub	Online ISSN: 1872-7409	01-05-2025
22	Dr. Manjot Kaur Bhatia	Asian Journal of Advanced Research & Report	Towards a Greener Future: Addressing Infrastructural Challenges in E-waste Management	7	Google Scholar	https://hal.science/hal-05114462/		01-06-2025
23	Dr. Deepti Sharma	The Journal of media, culture and communication	Exploring the Role of AI for Enhancement of Social Media Marketing	9	Peer Reviewed Journal	https://journal.hmjournals.com/index.php/IJMC/article/view/4675	2799-1245	01-08-2024
24	Dr. Deepti Sharma	International Journal of Progressive Research In Engineering Management And Science	Big data Revolution : Transforming Different Sectors	9	Peer Reviewed Journal	https://www.doi.org/10.58257/IJPREMS35372	E-ISSN - 2583 - 1062	01-07-2024
25	Dr. Swaty Wadhwa	International Journal of Digital Communication and Analog Signals	Revolutionizing Healthcare: The AI-Driven Transformation	3	Google Scholar	https://journalspub.com/publication/ijdcas/article=10123/	2455-0329	2024
26	Dr. Lokesh Jain	International Research Journal of Innovations In Engineering and Technology	Twitter Clone: An Analysis of the Development of Social Media		Google scholar	https://irijet.com/common_src/article_file/1734590214_af974de816_8_irijet.pdf	(ISSN- 2581-3048)	01-12-2024





27	Dr. Lokesh Jain	International Journal of Research Publication and Reviews	Interactive E-Learning platform for enhancing student engagement		Google scholar	https://iirpr.com/uploads/V5ISSUE12/IIRPR36639.pdf	ISSN-2582-7421	01-12-2024
28	Dr. Lokesh Jain	International Research Journal of Innovations in Engineering and Technology	Reinforcement Learning-based Snake Game		Google scholar	https://irijet.com/common_src/article_file/1734590341_bdce35f82a_8_irijet.pdf	(ISSN- 2581-3048)	01-12-2024
29	Mr. Yogesh Kumar	International Journal of Modernization in Engineering Technology and Science	Second opinion system Research Paper		Peer Reviewed Journal		ISSN: 2582-5208	2025
30	Mr. Yogesh Kumar	International Journal of Creative Research Thoughts	Towards Efficient Fleet Handling: A Modular Vehicle Management System for Digital Platforms		Peer Reviewed Journal	https://iicrt.org/papers/IICRT25A5014.pdf	ISSN: 2320-2882	2025
31	Ms. Manju Arora	International Journal of current science	AI Generated Media and Public Trust : A comprehensive analysis of perception , Acceptance and sentiment trends		Peer Reviewed Journal	https://iripn.org/iicspub/papers/JCSP25B1007.pdf	ISSN - 2250-1770	Apr-25
32	Ms. Manju Arora	International Journal of Research Publication and Reviews (IIRPR)	Starbucks Chain Opening Management System		Peer Reviewed Journal	https://iirpr.com/uploads/V6ISSUE5/IIRPR46062.pdf	ISSN:2582-7421	01-05-2025
33	Ms. Manju Arora	International Journal of Multidisciplinary Research (IJMR) on	A Full-stack web solution for catering services using MERN:Design, Implementation, and evaluation"		Peer Reviewed Journal	https://eprajournals.com/IJMR/article/16136	ISSN (Online): 2455-3662	01-05-2025
34	Ms. Manju Arora	International Journal of Latest Technology in Engineering, Management & Applied Science	A Full-Stack Web Solution For Online FMCG (Fast-Moving Consumer Goods) Management System Using MERN:Design, Implementation And Evaluation		Peer Reviewed Journal	https://www.researchgate.net/publication/392174349_A_Full-Stack_Web_Solution_for_Online_FMCG_Fast-Moving_Consumer_Goods_Management_System_Using_MERN_Design_Implementation_and_Evaluation	ISSN 2278-2540	01-05-2025
35	Ms. Suman Singh	International Journal of System Assurance Engineering and Management	Design and optimization of three class object detection modalities for manufacturing steel surface fault diagnosis and dimensionality classification		Springer	doi:https://doi.org/10.1007/s13198-024-02503-8 , https://link.springer.com/journal/13198/articles	0975-6809 / 0976-4348	16-09-2024
36	Mr. Shailender	Information Systems Engineering and Management: Springer	Leveraging XR for Environmental Communication and Behavior Change: A Media Perspective		Springer	https://link.springer.com/chapter/10.1007/978-3-031-88013-1_2	ISSN 3004-958X ISSN 3004-9598 (electronic), ISBN 978-3-031-88012-4 ISBN 978-3-031-88013-1 (eBook) E-ISSN - 2583 - 1445	May-25
37	Dr. Parminder Bajaj	Abhigyan	Fintech innovation financial performance and stability : A Systematic literature review and bibliometric analysis	5	Sage Publication	https://journals.sagepub.com/doi/epub/10.1177/09702385241299870		01-12-2024
38	Dr. Parminder Bajaj	International Journal of Accounting, Business and Finance (IJBAF)	Navigating APEC Countries: TVP-VAR Insights into Developed and Emerging Stock Market	5	Google Scholar	https://www.ijabf.in/index.php/IABF/article/view/120	e-ISSN 25832123	23-07-2024
39	Mr. Shailender	International Journal for research publications and seminar	The powerful role of print media in India's fight for independence: A study		Peer Reviewed & Refereed	https://irpsjournal.in/index.php/irps/article/view/258/316	ISSN:2278-6848, Vol 16 No.2 (2025): Apr-June 2025	01-06-2025



THE RISE OF EXPLAINABLE AI (XAI): ENHANCING TRANSPARENCY, TRUST, AND ACCOUNTABILITY IN MACHINE LEARNING MODELS

Dr. Latika Kharb¹, Dr. Deepak Chahal²

^{1,2}Professor, Jagan Institute of Management Studies, Sector-5, Rohini, Delhi, India.

latika.kharb@jimsindia.org, deepak.chahal@jimsindia.org

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ABSTRACT

In recent years, artificial intelligence (AI) has become a cornerstone of technological advancement, making strides in industries such as healthcare, finance, and autonomous driving. However, as AI systems, particularly deep learning models, grow in complexity, a critical challenge has emerged: **explainability**. Machine learning models, while powerful, are often viewed as “black boxes,” offering little insight into how decisions are made.

This opacity raises concerns about trust, accountability, and ethical implications. As a result, the field of **Explainable AI (XAI)** has gained significant attention in both academia and industry. Explainable AI seeks to provide transparency into how AI models function and arrive at their conclusions, thereby enabling human users to understand and trust machine-driven decisions. This paper explores the evolution of XAI, its importance, key techniques, applications, and the ongoing challenges in the field.

1. INTRODUCTION

Understanding Explainable AI (XAI)

Explainable AI (XAI) refers to methods and techniques that make AI systems more interpretable to humans without sacrificing the model's performance. Traditional machine learning models, particularly deep neural networks, have proven to be incredibly effective at tasks such as image recognition, natural language processing, and speech recognition. However, these models are often complex, with millions of parameters and intricate architectures that make it difficult to understand why they make specific predictions.

XAI aims to bridge this gap by providing transparency, interpretability, and reasoning behind AI models' decisions. This not only improves trust in AI systems but also enables better decision-making, especially in high-stakes environments like healthcare, law, and finance, where understanding the reasoning behind an AI's suggestion or decision is critical (Gilpin et al., 2018). The goal is not only to provide explanations for AI's outcomes but also to ensure that these explanations are understandable to users, whether they are developers, domain experts, or even the end-users of AI-powered applications.

Why Explainable AI Matters

As AI systems are increasingly integrated into decision-making processes across various sectors, the need for transparency becomes paramount. The **black-box nature** of many advanced machine learning models, particularly deep neural networks, poses several concerns:

- 1. Trust and Adoption:** If users cannot understand how AI reaches its conclusions, they are less likely to trust the system. This is particularly important in sectors like healthcare, where incorrect or unexplained decisions can have life-altering consequences (Caruana et al., 2015).
- 2. Accountability:** As AI models are deployed in critical applications, there must be a mechanism to ensure that the model is acting ethically and in accordance with regulations. Without explainability, it becomes difficult to hold AI systems accountable for their actions, especially in cases of erroneous or biased outcomes.
- 3. Bias and Fairness:** AI models, if not properly explained, may inadvertently perpetuate biases present in the data they are trained on. XAI can help identify and correct these biases by providing insights into how the model makes decisions (Ribeiro et al., 2016).
- 4. Regulatory Compliance:** Many industries, particularly those that deal with sensitive data (such as finance and healthcare), are subject to regulations that require transparency. XAI can help ensure that AI models comply with such regulations by offering clear explanations of their behavior.

Key Techniques in Explainable AI

To make AI more transparent, researchers have developed several methods that aim to explain how AI models arrive at their decisions. These techniques can be broadly categorized into two types: intrinsic explainability and post-hoc explainability.





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A FULL-STACK WEB SOLUTION FOR CATERING SERVICES USING MERN: DESIGN, IMPLEMENTATION, AND EVALUATION

Jayant, Dr. Manju Arora

Department of Information Technology, Jagannath Community College,
Rohini, New Delhi, India

DOI:

Journal Name :

EPRA International
Journal of
Multidisciplinary
Research (IJMR)

Abstract

This project introduces an advanced online catering management system to upgrade and modernize the way catering services are run. There is a practical and adaptable system interface comprising such features as monitoring menu display, processing customer orders, checking delivery status and managing customer and vendor data. There are systems that have been set up from about ten main interactive modules such as to update a menu immediately as an AI dishes offered recommendation, searching for dishes intelligently and with admin dashboards with interactive functions. With features such as menu management by category, secured user authentication and real-time order tracking the system aims at raising service efficiency while at the same time reducing hands-on management work. It also supports multiple user roles with secure access control for both customers. Then again, different methods have to be employed, to fulfill administrative roles. What contemporary web technologies and back-end solutions bring to you all are high availability, scalability and most important of all, precise data. This application fulfills the requirements of catering businesses, event planners and customers, thus it helps make catering service management more formalized and better to navigate. In addition, it makes that management much sharper.

Keywords:

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