Special Issue Announcement - Call for Papers

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Focus Theme: Synergizing Intelligence: Harnessing Advanced Data Technologies through Innovative Machine Learning Applications

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About the Journal

This journal is created to disseminate innovative research under the Make in India initiative. One of the main objectives of this journal is to promote innovation in Science & Technology in the younger generation of researchers and students by fostering greater unification among several disciplines of Science, Engineering, Technology, Medicine, Social Sciences, and Finance. This activity relates to the encouragement of scientific research that focuses on problems of contemporary societal concerns and their solutions, leading to the development of sustainable technologies to better the lives of mankind across the globe. This journal has been registered with several indexing, reviewing, and abstracting agencies. JISST is completely peer-reviewed, multidisciplinary, and unique in nature and supports open-access research. This Journal has published a few special issues on contemporary societal challenges.

Subjects of Interest

This special issue, titled "Synergizing Intelligence: Harnessing Advanced Data Technologies through Machine Learning and their Applications," aims to explore and highlight the integration of advanced data technologies with machine learning. The focus is on innovative methodologies and practical applications that address real-world challenges. From enhancing security through anti-theft systems and fake news detection to advancing healthcare with dental disease classification and plant disease identification, this collection delves into diverse domains. It also covers critical areas like data privacy in cloud computing, decision-making during crises, optimization of supply chain networks, and the development of language processing algorithms. By bringing together these varied topics, the special issue seeks to provide a comprehensive overview of the current advancements and future directions in the field of machine learning and its applications.

The special issue encourages submissions on a wide range of topics, including but not limited to:

1. Machine Learning and Data Analysis
2. Deep Learning Applications
3. Optimization Techniques in Machine Learning

4. Data Security and Privacy
5. Comparative Studies of Machine Learning Algorithms
6. Adaptive and Dynamic Learning Systems
7. Advanced Encryption Methods
8. Natural Language Processing
9. Cross-disciplinary Applications of Machine Learning
10. Intelligent Systems in Various Domains
11. Cloud Computing and Big Data Analytics
12. Internet of Things (IoT) and Smart Systems
13. Image and Video Processing
14. Computational Biology and Bioinformatics
15. Financial Modeling and Forecasting
16. Reinforcement Learning and Decision-Making
17. Explainable AI and Model Interpretability
18. Robotics and Automation
19. Edge and Fog Computing
20. Human-Computer Interaction and User-Centered Design
21. Neural Network Architectures and Training
22. Predictive Analytics and Forecasting
23. Swarm Intelligence and Evolutionary Algorithms
24. Sensor Networks and Real-time Monitoring
25. Distributed and Parallel Computing for Machine Learning
26. Anomaly Detection and Fraud Prevention
27. Autonomous Vehicles and Smart Transportation Systems
28. Healthcare Analytics and Predictive Medicine
29. Natural Language Understanding and Generation
30. Cyber-Physical Systems and Embedded AI
31. Smart Grid and Energy Management Systems

We anticipate that the research featured in this issue on the applications of Machine Learning, Deep Learning, Optimization, and Security will contribute to the development of innovative solutions, benefiting both academia and industry. The Editorial Board invites three types of submissions:

- Comprehensive original research papers encompassing theoretical, practical, and implementation aspects.
- Concise tutorials and educational articles.
- Short presentations of pertinent and current problems across related fields, along with proposed solutions using established or novel techniques.

The primary objective of the submitted articles is to enhance the understanding of both academic and industry professionals on topics that address societal concerns, which may often be challenging to access for those engaged in interdisciplinary research.