

Call for Book Chapters/Research Papers for Edited Book

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Recent Emerging Trends in Artificial Intelligence and Machine Learning



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Call for Chapters

Recent Emerging Trends in Artificial Intelligence and Machine Learning

Aims and Scope:

The aim of this proposal about Artificial intelligence (AI) and machine learning (ML) are dynamic fields that continue to evolve rapidly. Here are some recent emerging trends and developments in AI and ML as of my last knowledge update. As AI systems are being used in critical applications like healthcare and finance, there is a growing need for transparency and interpretability. XAI techniques aim to make AI models more understandable and provide insights into their decision-making processes. There is increasing awareness of the ethical implications of AI technologies. Organizations are focusing on creating AI systems that are fair, unbiased, and accountable. AI ethics frameworks and guidelines are emerging to ensure responsible AI development and deployment. Federated learning is a privacy-preserving machine learning approach that allows model training across decentralized devices or servers holding local data, without exchanging them. This is particularly useful in applications like healthcare and IoT where data privacy is crucial. Transformer-based models have become dominant in natural language processing (NLP) and have achieved remarkable results. Explainable AI is particularly relevant in this industry for regulatory compliance. AI is being applied to address climate change challenges, including optimizing energy consumption, predicting extreme weather events, and analyzing climate data. AI-driven personalized learning platforms are becoming more common. These platforms adapt to individual student needs and provide a more effective and engaging learning experience. AI is being used to optimize resource allocation, reduce energy consumption, and improve sustainability practices in various industries. AI-driven drug discovery platforms are accelerating the process of identifying potential drug candidates and optimizing drug development pipelines.

List of Topics :

- Disease diagnosis and prediction.
- Drug discovery and development.
- Personalized medicine and treatment recommendations.
- Medical image analysis (e.g., radiology and pathology).
- Language translation and sentiment analysis.
- Conversational AI (chatbots and virtual assistants).
- Text summarization and text generation.
- Image and video analysis
- Facial recognition and emotion analysis.
- Autonomous vehicles and drones.
- Stock market prediction and algorithmic trading.
- Credit scoring and risk assessment.
- Fraud detection and prevention.
- Economic forecasting and market analysis.
- Climate modelling and prediction.
- Natural disaster detection and response.
- Energy and Sustainability
- Energy consumption optimization.
- Smart grid management.
- Renewable energy resource forecasting.
- Waste management and recycling.
- Personalized learning and adaptive education.
- Automated grading and feedback.
- Learning analytics for student performance prediction.
- Recommender systems for educational content.
- Robot perception and navigation.

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