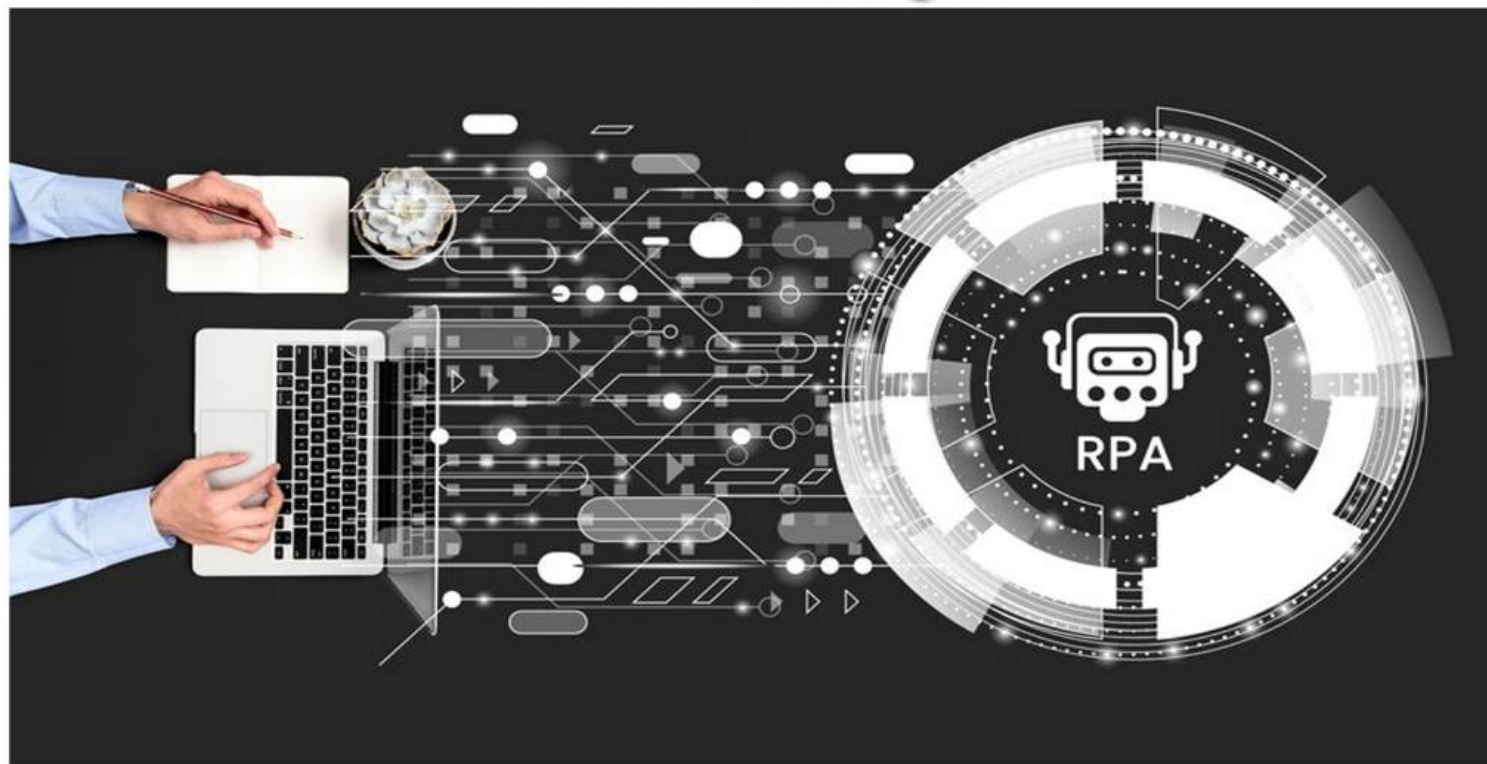# Call for Book Chapters/Research Papers for Edited Books
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Pure Intelligence: Core Principles of Machine Learning and Artificial Intelligence

Series Editor:

Dr Preet Kamal
Assistant Professor
Computer Science & Engineering
Chandigarh University
India
preetkgarcha@gmail.com

Payal Thakur
Computer Science & Engineering
Chandigarh University
India
Payalthakur16@gmail.com

Shanu Khare
Computer Science & Engineering
Chandigarh University
India
Shanukhare0@gmail.com

Navjot Singh Talwandi
Computer Science & Engineering
Chandigarh University
India
Navjotsingh49900@gmail.com

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Call for Chapters

Pure Intelligence: Core Principles of Machine Learning and Artificial Intelligence

Aims and Scope:

The Book of Pure Intelligence: Core Principles of Machine Learning and Artificial Intelligence is to provide a solid and comprehensive foundation for learners, researchers, and practitioners seeking a deep understanding of the theoretical and practical aspects of Machine Learning (ML) and Artificial Intelligence (AI). This book emphasizes the fundamental principles, mathematical frameworks, and algorithmic underpinnings that drive intelligent systems. It is crafted to serve as both a reference and a guide for developing strong conceptual clarity in the rapidly evolving field of AI and ML. The Book spans the classical and modern developments in AI and ML, covering essential algorithms, learning paradigms, data-driven approaches, and foundational mathematical tools. It also addresses ethical considerations, explainability, and real-world applications. The book welcomes contributions that delve into theoretical innovations, algorithmic strategies, comparative analysis, and emerging trends that reflect the core essence of pure machine learning and artificial intelligence.

List of Topics :

• Chapter-1 Fundamentals of Machine Learning and AI
• Chapter-2 Supervised, Unsupervised, and Reinforcement Learning
• Chapter-3 Neural Networks and Deep Learning Architectures
• Chapter-4 Statistical Learning Theory
• Chapter-5 Optimization Techniques in ML and AI
• Chapter-6 Feature Engineering and Dimensionality Reduction
• Chapter-7 Decision Trees, SVMs, k-NN, and Ensemble Methods
• Chapter-8 Probabilistic Models and Bayesian Learning
• Chapter-9 Natural Language Processing Fundamentals
• Chapter-10 Computer Vision and Pattern Recognition
• Chapter-11 Fuzzy Logic, Evolutionary Algorithms, and Hybrid Models
• Chapter-12 AI Reasoning and Expert Systems

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