

# Call for Book Chapters/Research Papers for Edited Books To be published with ISBN under IIP International publishers,USA and India Applications of Machine Learning and Artificial Intelligence in Urban Development



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## Call for Chapters

### Applications of Machine Learning and Artificial Intelligence in Urban Development

#### Aims and Scope:

The rapid pace of urbanization and technological advancements has opened up unprecedented opportunities to address the multifaceted challenges faced by modern cities. Machine Learning (ML) and Artificial Intelligence (AI) offer transformative solutions to urban planning, infrastructure development, resource management, and sustainable living. This edited book aims to consolidate cutting-edge research, case studies, and innovative applications of ML and AI in urban development, providing a comprehensive resource for academics, practitioners, and policymakers. Highlight the role of ML and AI in solving critical urban challenges such as traffic management, waste disposal, energy optimization, and smart governance. Present interdisciplinary approaches and frameworks that integrate AI technologies with urban planning. Showcase real-world applications, success stories, and lessons learned from implementing ML and AI solutions in urban settings. Foster discussions on ethical, social, and policy implications of deploying AI in urban environments. Identify future research directions and emerging trends in the field

#### List of Topics :

- 1. Smart City Infrastructure**
  - AI for urban planning and zoning.
  - Smart grids and energy management.
  - Predictive maintenance of public infrastructure.
- 2. Transportation and Mobility**
  - Traffic flow optimization using ML algorithms.
  - Autonomous vehicles and public transportation systems.
  - Real-time route and congestion management.
- 3. Sustainable Urban Development**
  - AI for efficient waste management.
  - Water resource management using predictive analytics.
  - Urban resilience and disaster preparedness.
- 4. Healthcare and Safety**
  - AI-driven public health monitoring systems.
  - Enhancing urban safety with predictive policing and surveillance systems.
  - Pandemic management in urban settings.
- 5. Environmental Monitoring**
  - Air quality prediction and pollution control using ML.
  - Climate change adaptation strategies powered by AI.
  - Green building designs and urban biodiversity monitoring.
- 6. Governance and Citizen Engagement**
  - AI for transparent and efficient governance.
  - Chatbots and citizen services automation.
  - Sentiment analysis for public policy feedback.
- 7. Emerging Technologies in Urban Development**
  - Integration of AI with IoT for urban applications.
  - Role of blockchain in smart cities.
  - Advances in edge and cloud computing for urban analytics.

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