Ethics, Machine Learning, and Python in Geospatial Analysis

Part of the Advances in Geospatial Technologies Book Series

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Description:

In geospatial analysis, navigating the complexities of data interpretation and analysis presents a formidable challenge. Traditional methods often need to efficiently handle vast volumes of geospatial data while providing insightful and actionable results. Scholars and practitioners grapple with manual or rule-based approaches, hindering progress in understanding and addressing pressing issues such as climate change, urbanization, and resource management.

Ethics, Machine Learning, and Python in Geospatial Analysis offers a solution to the challenges faced by leveraging the extensive library support and user-friendly interface of Python and machine learning. The book's meticulously crafted chapters guide readers through the intricacies of Python programming and its application in geospatial analysis, from fundamental concepts to advanced techniques.

Scholars and practitioners can now enhance their analytical capabilities and unlock deeper insights from geospatial data with the guidance of this pivotal book. From manipulating data structures to employing machine learning algorithms, it equips readers with the tools and knowledge to tackle complex geospatial problems confidently and precisely. With Ethics, Machine Learning, and Python in Geospatial Analysis, the era of cumbersome manual processes gives way to a new frontier of efficient, data-driven analysis, empowering scholars to make meaningful contributions to geospatial science.
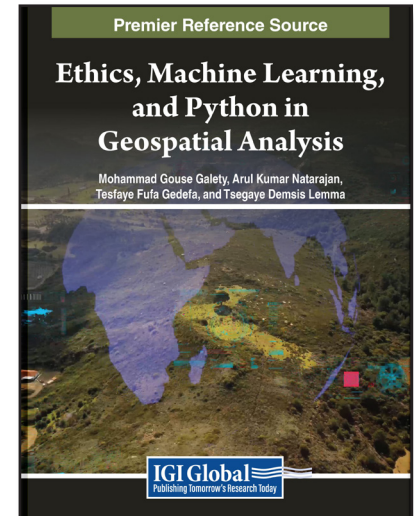
ISBN: 9798369363812 | **Pages:** 320 | **Copyright:** 2024 | **Release Date:** August, 2024

Hardcover: $255.00 | **E-Book:** $255.00 | **Hardcover + E-Book:** $305.00

Topics Covered:

- Advanced Analysis Techniques
- Climate Change
- Complex Data Sets
- Data Analysis Ethics
- Data Interpretation
- Data Structures
- Geospatial Analysis Ethics
- Machine Learning
- Manual Approaches
- Python
- Resource Management
- Rule-Based Strategies

Subject: Environment & Agriculture

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners