Geospatial Data Governance

Online

10 - 14 August 2025

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Geospatial Data Governance

Introduction

The Advanced Course on Geospatial Data Governance is a comprehensive program designed to provide participants with modern and advanced knowledge and skills in managing and governing geospatial data. This course explores the principles, methodologies, and best practices for effectively managing geospatial data in today's rapidly evolving digital landscape. Through a combination of theoretical learning, practical exercises, and real-world case studies, participants will gain the expertise necessary to establish robust geospatial data governance frameworks, ensuring data quality, integrity, and accessibility.

Course Objectives

- Provide a comprehensive understanding of geospatial data governance, its importance, and its role in decision-making processes.
- Explore advanced techniques for managing and governing geospatial data throughout its lifecycle.
- Develop the skills necessary to establish data standards, policies, and procedures for geospatial data management.
- Enhance participants' ability to ensure data quality, integrity, and interoperability in geospatial datasets.
- Foster an understanding of emerging trends and technologies in geospatial data governance and their implications for organizations.
- Equip participants with the knowledge and skills to analyze geospatial data using the Python data science ecosystem, including GeoPandas and its extensions.

Course Outlines

Day 1: Introduction to Geospatial Data Governance

- Overview of geospatial data governance and its significance in today's digital landscape.
- Understanding the challenges and opportunities in managing geospatial data.
- Exploring the legal, ethical, and regulatory considerations in geospatial data governance.

Day 2: Geospatial Data Lifecycle Management

- Understanding the lifecycle of geospatial data from acquisition to archiving.
- Establishing data management processes and workflows for geospatial datasets.
- Data documentation, metadata standards, and data cataloging in geospatial data governance.

Day 3: Data Standards and Interoperability

- Introduction to geospatial data standards and their role in ensuring data interoperability.
- Implementing and maintaining data standards for geospatial datasets.

- Addressing data integration challenges and promoting interoperability in geospatial data governance.

Day 4: Data Quality and Integrity in Geospatial Data Governance

- Understanding data quality dimensions and metrics for geospatial datasets.
- Data validation, cleaning, and transformation techniques for ensuring data integrity.
- Implementing data quality assurance processes in geospatial data governance frameworks.

Day 5: Geospatial Data Analysis with Python

- Overview of the Python data science ecosystem for geospatial data analysis.
- Basics of Python data science, including NumPy and Pandas.
- Performing geospatial analysis using GeoPandas.
- Using Jupyter for documenting workflows and creating interactive code examples.
- Exploring geospatial extensions to Python data science: Fiona, Shapely, GDAL, and GeoPandas.

Conclusion

By the end of this course, participants will have a thorough understanding of geospatial data governance, including its definition, the benefits of data governance, and its critical role in data analytics in government and various sectors. They will be equipped with the skills to develop effective data governance policies, understand the responsibilities associated with data governance, and utilize advanced tools for geospatial data solutions. This knowledge will empower them to become proficient geospatial data specialists, capable of implementing strategic geospatial data initiatives within their organizations.

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