



Spatial Data Science Course

Value Addition | Offline/Online

Duration: 40 Hours

REGISTER NOW



KHAGOLAM

Institute of Geoinformatics

www.khagolam.com | info@khagolam.com | +91 98929 98626



Course Information

Course Title: **Spatial Data Science and Applications**

Duration: 2 months

Training Modes: **Offline/Online/Hybrid** | **Full Time/Part-time**

Timing: **Min 3 hours/day** | **Max 8 hours/day**

Course Eligibility

- Knowledge Experience of ArcGIS Pro
- Understanding of GIS fundamental concepts

Fee

55,000 INR, for Nationals of India, Nepal, Bhutan, Bangladesh, Sri Lanka and Maldives, & Myanmar.

615 USD, For Non-Residents of India.

INSTALMENTS: 5,000 on registration
50,000 - before the course start

RECOMMEND COMBINATION:

Entry Level	Module/Fee	Contents
L1	GIS Essentials 15K – 40 hours	Working with ArcGIS Pro
L2	Spatial Data Science 20K – 40 hours	Spatial Analysis, Machine Learning, Deep Learning, AI
L3	Python 20K – 40 hours	Programming ArcGIS with Python
	Project Work 0K – 20 hours	Project Work



Overview

As the world increasingly relies on location-based data to inform decision-making across diverse sectors, the demand for skilled professionals in Spatial Data Science has never been greater. Spatial Data Science and Application (SDSA) is designed to empower individuals with the expertise to harness the potential of spatial data, blending the realms of Geographic Information Systems (GIS), Remote Sensing, spatial analysis, data science, visualization, and programming.

Spatial data science Course includes Data engineering, Data enrichments technics, Cartographic design with emphasizing effective visual thinking and visual communication, Geo-visual analytics tools, Data Transformation and Manipulation, Using Suitability Models, Machine learning approach, to solve problems. Train and evaluate a model, Object Detection with Deep Learning, Statistical clustering methods to analyze patterns, geospatial intelligence professionals to apply and interpret results of non-quantitative analysis and modeling techniques, Predictive Analysis.

You will learn to

1. Explore how spatial data, tools, and analysis techniques augment traditional data science.
2. Applying data engineering and visualization techniques in ArcGIS Pro and ArcGIS Notebooks.
3. Use Spatial Approach to Predictive Analysis Prediction
4. Incorporating spatial properties into modeling workflows deepens understanding of data and adds predictive power.
5. Apply random forest, a widely used machine learning approach, to solve problems. Train and evaluate a model, then use it to generate robust predictions.
6. Understand and apply Optimal Locations Using Suitability Models, Perform a weighted overlay analysis that considers and ranks multiple suitability criteria, Transform data using functions to more completely represent suitability impact



7. Identify patterns and clusters in data and determine if they are meaningful, Apply statistical clustering methods to analyze patterns in space as well as time. Create a space time cube, then use space-time pattern mining tools to explore spatiotemporal trends and determine where and when high and low clusters occur.
8. Object Detection with Deep Learning Take a deep dive into extracting information from massive data using deep learning. Learn how to automate the process of detecting objects and identifying features from imagery.
9. Communicating Results with Impact Successful analysts and data scientists must be effective storytellers. Learn how to present a complex analysis using information products that resonate with your audience. Design and build inter active, visual stories that share the key information you want decision-makers to understand and act on

How to Apply

Step 1: register at: <https://www.khagolam.com/home/register>

Step 2: Check mail for course & bank details

Step 3: Transfer payment & share transaction receipt on What's App

Step 4: You will receive registration confirmation, by SMS/Call/Whats App.

REGISTRATION SHALL CLOSE 4 DAYS BEFORE THE START DATE. SPOT REGISTRATIONS ARE NOT ALLOWED.

FAQ's

Q: Does fees include accommodation and food?

A: No. but we can help you to get the nearest accommodation.




Why Khagolam:

- Specialize institute for geospatial technologies
- Job oriented curriculum
- Comprehensive training material
- 100% placement assistance
- Professional Trainers
- Exposure to live projects
- Flexible timings
- Exposure to 3D GIS
- Practice, aptitude and interview rounds
- e-library facility



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Mumbai | Pune

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Be in touch @   

