

An Executive Development Program organized by A-CUPCB-SPAV on **AI Tools for Spatial Planning** for Urban Local Bodies

Open-Source Spatial Workflows using QGIS (EDP_26_01)



SEPTEMBER 28-30, 2026



3 DAYS | 6 SESSIONS | HANDS-ON
24 Hrs | 1.5 CREDITS EQUIVALENT

01



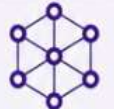
Local GeoAI Setup &
Conversational Geoprocessing

02



AI Querying, Dynamic Styling &
Unstructured Spatial Extraction

03



Deep Learning Computer Vision
for Feature Extraction

04



Topological Quality
Check on Maps

05



Predictive Modeling -
LULC Prediction

06



Case Studies &
Toolkit Consolidation

TOOLS WE USE



Ollama
Run LLMs locally
(e.g., Gemma)



QGIS
Open Source GIS



GeoAgent
AI Agent for GIS
Tasks & Automation



GeoAI
AI Tools & Models
for Spatial Analysis



Python
Scripting



Gemma
LLMs via Ollama



Smarter
Decisions



Efficient
Workflows



Sustainable
Cities



Better
Communities



Target Audience

- Planners, Architects & Engineers
- Academicians & Researchers
- Government Officials
- Consultants
- Policy makers

About the Program

The rapid digital transformation of urban governance demands intelligent, secure, and automated spatial workflows. Mastering open-source tools equips professionals to move beyond manual digitizing and repetitive geoprocessing, enabling conversational GIS analysis, deep-learning feature extraction, and rapid data-driven decision-making for complex municipal challenges.

The Executive Development Programme is a primarily *hands-on, lab-intensive workshop* tailored for *urban planners, municipal engineers, and GIS analysts*. Organized by *A-CUPCB-SPAV*, participants will spend the majority of the time actively working in computer laboratories with a 100% open-source toolstack, including local LLMs (Ollama/Llama 3), Meta's Segment Anything Model (SAM 3), and GeoAI. Through step-by-step practical exercises, attendees will directly master offline conversational GIS, vectorization, topological quality check on maps, and predictive LULC modelling using deep learning.

This programme nurtures digital leadership within Urban Local Bodies by bridging advanced spatial AI with daily administrative tasks. By emphasizing practical execution over theory, it equips practitioners with ready-to-deploy, privacy-compliant, and scalable Open-source workflows to drive modern, future-ready urban transformation.



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Registrations open now!

For registration, fees, more details, visit
https://acupcb.spav.ac.in/edp_26_01.php
Registration Deadline-25 September 2026, 4pm



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