

## **Python – Spatial Analysis (Intermediate)**

### **Goals of the workshop**

- Using Python types such as lists, tuples, & dictionaries as input to tools and functions
- Accessing and creating new data with Cursors
- Reading and writing geometries
- Creating and using objects such as spatial references
- Proper exception handling
- Code organization (using Python Functions)
- Functions for working with geodatabases
- Performance tips and tricks i.e. managing intermediate data, using in-memory layers, etc.

### **Major topics covered**

- What are Python Functions, Modules, Lists, Tuples, Dictionaries
- Accessing data with Cursors
- Reading and Writing Geometries
- Performance tips
- Managing intermediate data
- Creating objects such as spatial references, points, rasters
- Exception Handling