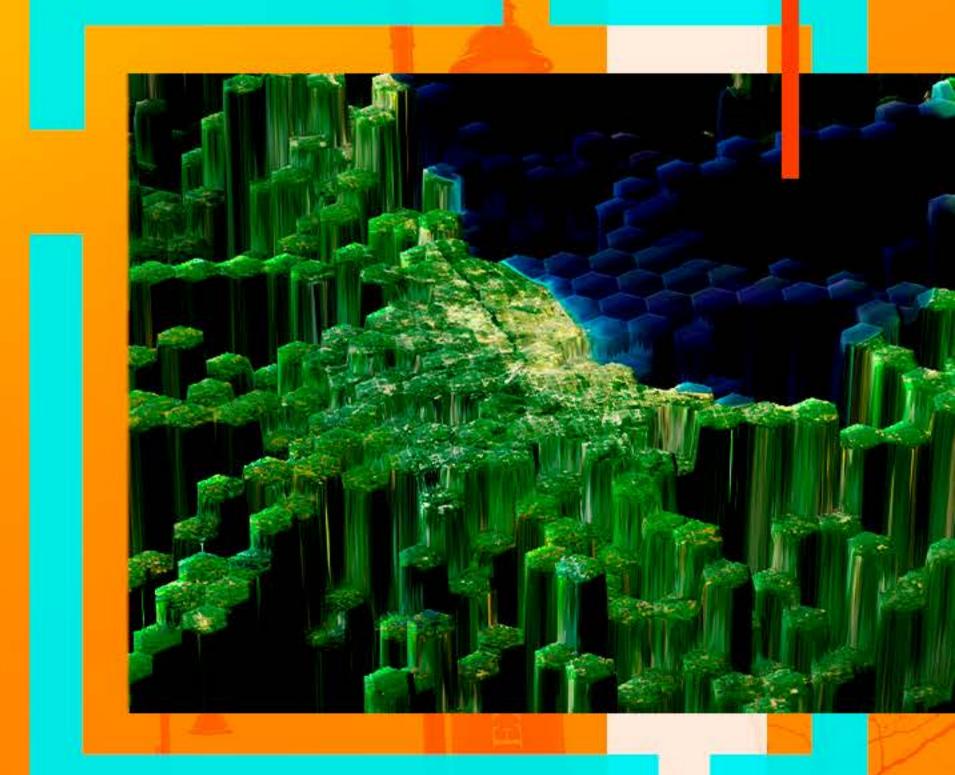


GIS Has Changed What are the key takeaways

for educators?



Data as services... not shapefiles



Discover, publish, share, and manage real-time, structured, or unstructured data—in spreadsheets, CSV files, or cloud storage—as web layers and services. Students can move beyond shapefiles to understand how geographic information system (GIS) technology is powered by dynamic, interconnected services.

Lessons and Resources

Build a Mobile Survey
Help Volunteers Clean a Beach

Clemson Inspires Campus-Wide GIS Use

Configurable web applications...not

Edmonton

Calgarv

map layouts

Build configurable, responsive web and mobile applications. Move beyond the static maps that have been the heart of GIS for decades. Modern GIS is Web GIS, powered by lightweight apps that meet the needs of a digital-native audience.

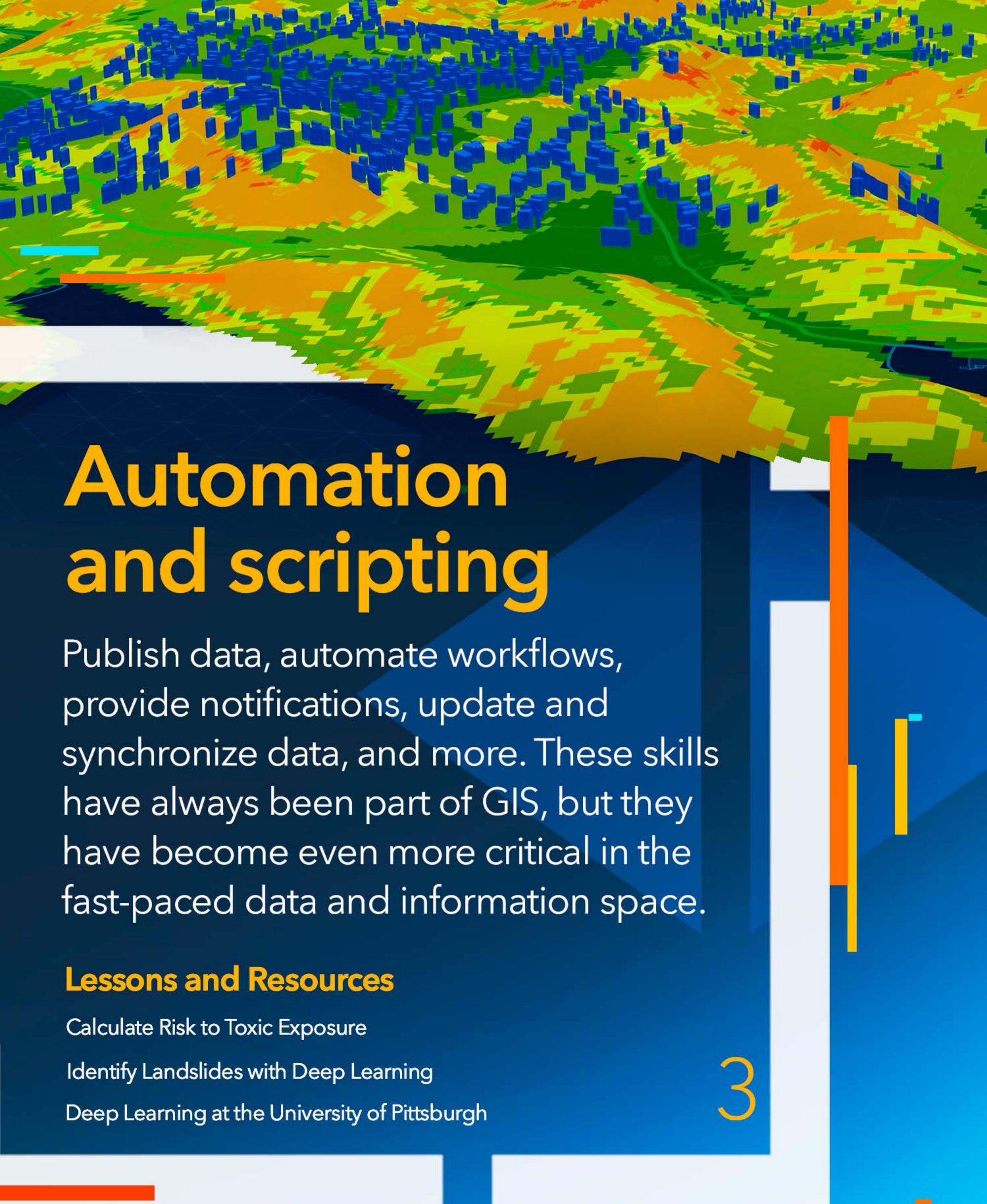
Lessons and Resources

Make a Dashboard to Monitor Wildfires

Use Analysis to Visualize Food Deserts

How Monroe Community College Built a Microcredential





Cloud infrastructure and architecture

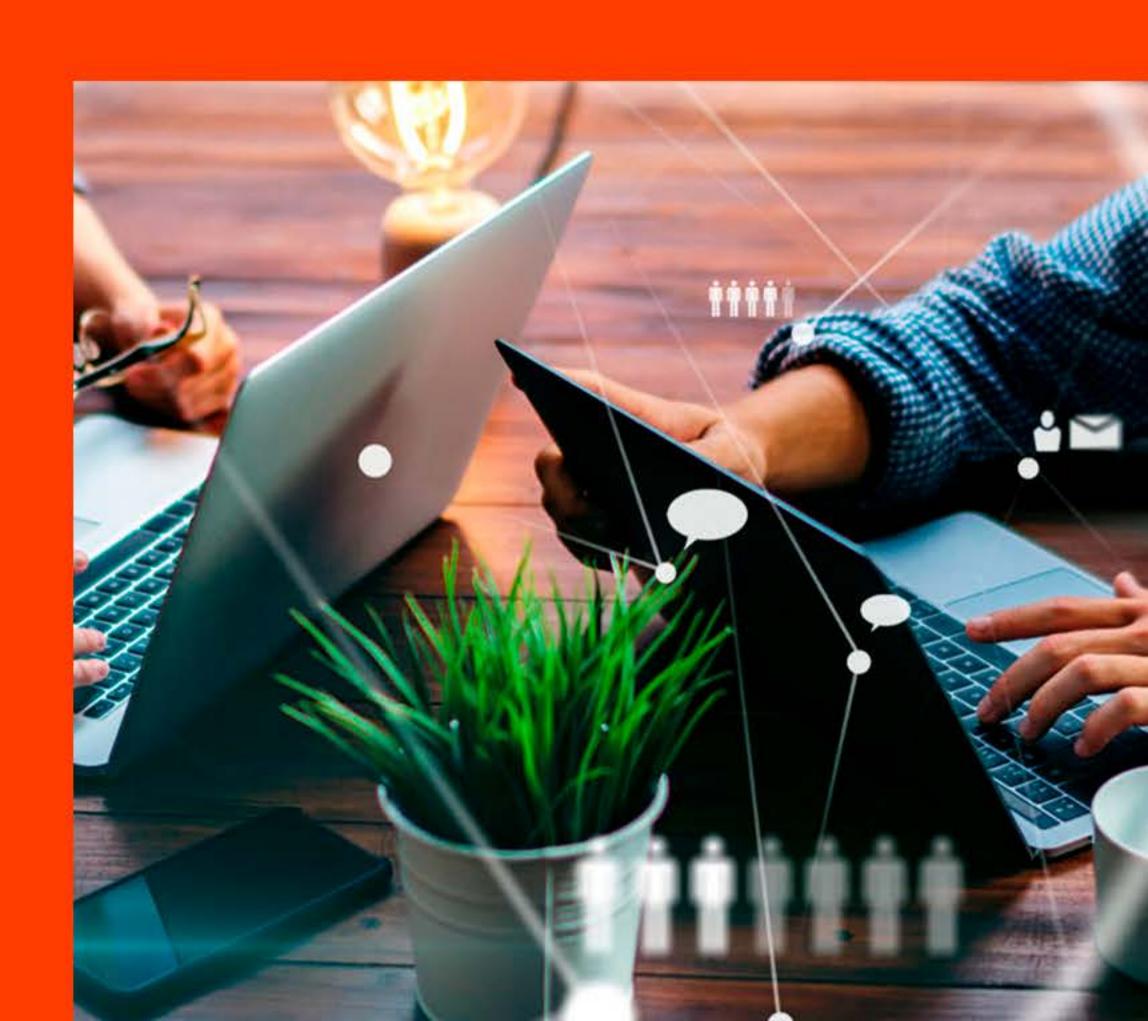
Teach students about web architecture and the Web GIS information model. Students need to know the underpinnings of modern GIS. It's critical to understand and troubleshoot issues in cloud computing platforms and databases to keep systems running.

Lessons and Resources

ArcGIS API for Python

Developer Tutorials

GIS + Computer Science Degree at the University of North Texas



Modern GIS is Web GIS

Thousands of cities, agencies, nonprofits, and businesses depend on Web GIS. Moving the locus of GIS from the desktop to the web makes it mobile, automated, responsive, interconnected, cloud based, and configurable—these themes are an integral part of a modern GIS curriculum.

- Data as services...not shapefiles
- Configurable web applications...not map layouts
- Automation and scripting
- Cloud infrastructure and architecture

Lessons and Resources

Modern GIS

Modern GIS Learn Lessons

Esri Academy