

The background of the slide is a map of a city area, likely Krakow, Poland, based on the street names. The map is overlaid with semi-transparent, multi-colored polygons that represent different geographical regions or districts. These colors include shades of green, yellow, orange, pink, purple, and blue. The text "Introduction to Geospatial Machine Learning" is centered over this map in a large, bold, green font.

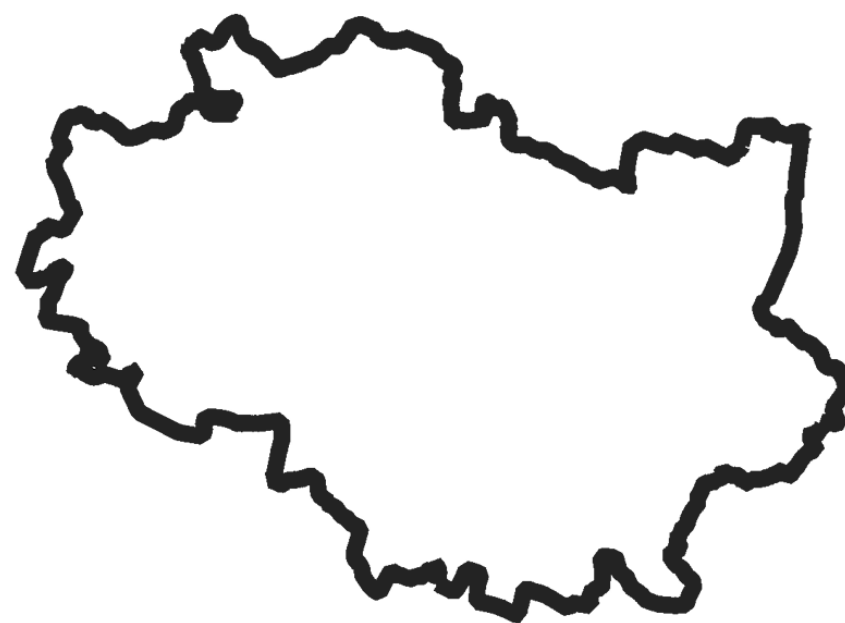
Introduction to Geospatial Machine Learning

Hello!

Resource materials:



<https://t.ly/jk51f>



Kraina AI

a Geospatial & Mobility Group at WUST

Visit our research group at kraina.ai



Piotr Szymański PhD
Supervisor



Kacper Leśniara



Kamil Raczycki



Piotr Gramacki



Szymon Woźniak

Origins

- geospatial representation learning
- challenges in working with geospatial data
- uncharted waters

Here comes SRAI

Here comes SRAI

Spatial Representations for Artificial Intelligence



kraina.ai

```
In [2]: from IPython.display import IFrame
        IFrame("https://kraina.ai", 1024, 600)
```



Out[2]:

Kraina

Geospatial & Mobility Research Group at WUST

At Kraina Lab, we embark on pioneering studies, leveraging advanced analytics to unravel the intricate complexities of geospatial phenomena and mobility patterns. Our research aims to derive meaningful insights from vast datasets, revolutionizing the understanding of urban dynamics and human interactions.

Our Key Areas of Focus:

-  **Geospatial Analysis:** Employing state-of-the-art spatial data processing techniques, we analyze urban distribution patterns, uncovering crucial spatial trends.
-  **Mobility Insights:** Through extensive data mining and modeling, we explore human movement patterns, optimizing urban planning and transportation systems.

What you will get (hopefully):

- familiarity with the geospatial domain
- tools to work with spatial data
- examples of potential applications
- SRAI library know-how 😊

Roadmap

1. Introduction to geospatial domain
2. SRAI
3. Warsaw Population
4. Green One Boxes
5. Bicycle Sharing Stations
6. Trip flow prediction (extra)

Questions?