

# Simplify Sustainability Data With Computer Vision & Geospatial AI

Gramener's data science solutions provide timely & efficient analysis of sustainability data at a reasonable cost.



## ESG-focused Applications – Computer Vision & Geospatial AI



### Computer Vision

Automate biodiversity monitoring using species detection, monitoring & identification API built on Microsoft Azure



### Geospatial AI

Create geographical visualization models using spatial data from sensors & satellite imagery to better understand parameters like population density, etc.

## Key Use-Cases



### Climate Risk Assessment

Leverage satellite imagery & deep learning models to assess risk exposure to extreme weather & disasters



### Urban Planning

Improve turnaround time & accuracy of urban planning using geospatial AI



### Land-use Mapping

Assess key indicators pertaining to land-use, forest cover, soil health, agricultural productivity & more



## AI in Healthcare

Automate insights for monitoring & prediction of the spread of a disease by leveraging geospatial AI



## Biodiversity Monitoring

Leverage computer vision to detect species in images from camera traps, satellites or aerial photography



## Crowd Counting

Train machine learning models to quantify terrestrial or marine species from image or video repositories

## Collaborating on Projects as Microsoft Gold ISV Partner

Gold  
Microsoft Partner  
 Microsoft



Developed a Deep Learning Algorithm for the **Nisqually River Foundation** to identify & protect Salmon fish species with 73% improved accuracy



Created a Data Visualization tool for **Evergreen Canada** to help city municipalities identify Urban Heat Islands (UHI) & reduce the negative effects of climate change



Trained a Deep Learning Model for **Save The Elephants** initiative to detect elephant population aerially & alert authorities to prevent poaching



Developed a Computer Vision Model for the **World Mosquito Program (WMP)** that saved 5 million lives by creating an efficient release plan for genetically modified mosquitoes & control the spread of diseases



Created a Flood Risk Assessment Model for **SEEDS** India that helped identify water-logged houses with 96% accuracy



Learn more