

# Build a Sustainable Future with Computer Vision and Geo AI



Gramener's AI for Good tech provides timely & efficient ESG decision-making at a reasonable cost.

## Our ESG Solutions



### Custom Geospatial AI Solution

Using spatial data from sensors & satellite imagery to create geographical visualization models to better understand patterns in climate-change, population density, etc.



### Custom Computer Vision Solution

Conserve biodiversity by developing a species detection, monitoring & identification API that can successfully identify more than 5000 animal and plant species. Built on Microsoft Azure.

## Key Use-Cases



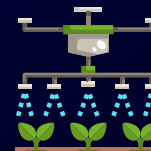
### Crowd Counting

Train Machine Learning models to count both animate & inanimate objects.



### Urban Planning

Vastly improve turnaround time and accuracy of urban planning by use of satellite imagery, etc.



### Smart farming

Increase crop yield by predicting soil health, prevent crop damage, reduce wastage and determine grain quality.



## Fighting Diseases

Accelerated response to, prevention, and prediction of the spread of a disease such as malaria by mapping population density.



## Biodiversity Conservation

Prevent long-term threats by classifying and monitoring flora and fauna species.



## Disaster Recovery

Complement sensors to protect lives from natural disasters by providing advanced warnings.

## Collaborating on Projects as Microsoft Gold ISV Partner



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



Created a Flood Risk Assessment Model for **SEEDs India** that achieved 96% accuracy in identifying water-logged houses.



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



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.



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

## Want to Know More?

