

A close-up photograph of several green leaves, likely lily pads, covered in numerous small, glistening water droplets. The leaves have a textured, slightly wavy appearance. The lighting is soft, creating highlights on the edges of the leaves and the surfaces of the droplets.

Mapping of Green
Spaces To Reduce
Global Warming And
Climate Change



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Team Name

The Game Changers

Team Members

- Kaustav Paul (22122026)
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PROBLEM STATEMENT

- Mapping Green Spaces
- Distinguishing Green Coverage from Urban Landscapes
- Analyzing Air Quality Index (AQI) in Specific City Areas
- Efficient Urban Planning for Significantly less polluted neighbourhoods.

Fresh Approach

The efficacy of green spaces in air purification and climate regulation is significantly influenced by the level of maintenance they receive. Therefore, meticulous planning and proficient management of urban green areas are crucial to optimizing their positive impact on human health and overall well-being so, Our Idea is to Introduce a application which can see the Green Cover in Urban Areas and will predict possibility to increase the Greenery around the city to reduce the overall pollution in the city.

What we offer ?

- A web application featuring an engaging user interface
- An interactive dashboard displaying predictions generated by various machine learning models, including SVM, DeepLabv3plus, and Random Forests classifier.

Features

Pollutant Emission

Co2

Location Coordinates

AQI

Photosynthesis in plants

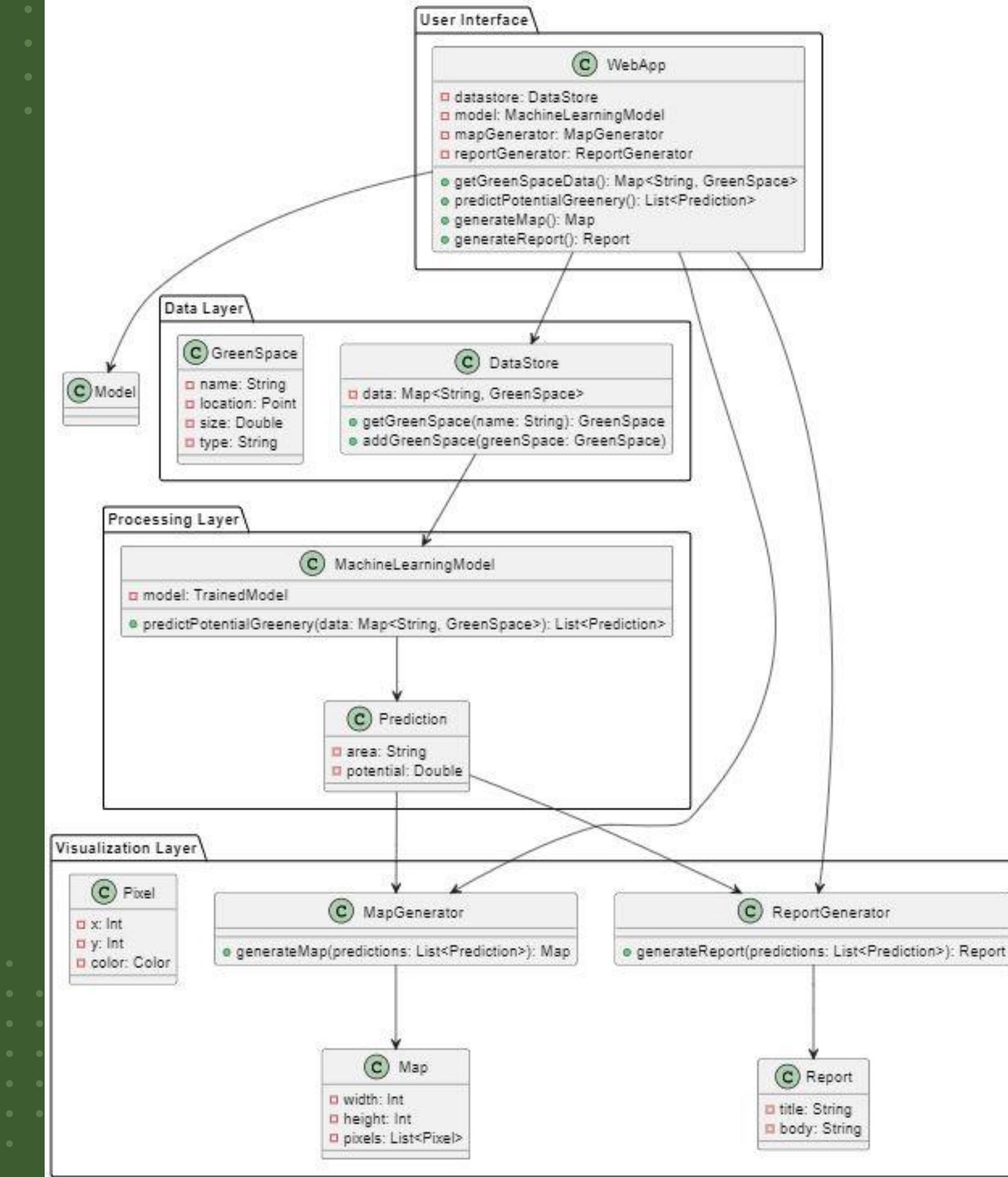


List of one API tool kit

- Intel one API base tool kit
 - Intel AI Analytics Toolkit
- Intel Distribution of OpenVINO Toolkit (Powered by one API)

Architecture Diagram

Architecture Diagram for Green Space Mapping and Prediction Application





Technologies Used

- 1) Python
- 2) CNN Model
- 3) SVM
- 4) ANN
- 5) Random Forest

Estimated Cost

The estimated cost to build such a project as a business model in India would vary depending on the size of the city. For a small city with a population of 100,000 people, the cost would be around ₹50 lakhs. For a medium-sized city with a population of 1 million people, the cost would be around ₹1 crore. And for a large city with a population of 10 million people, the cost would be around ₹5 crores.





THANK YOU