

TREE SPECIES IDENTIFICATION

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Remote sensing data combined with machine learning methods can be used to identify and classify tree species over large areas using satellite images. In this study, **Sentinel-2** multispectral data were used to process and analyze the images to separate **mango plantations (*Mangifera indica*)** from other types of vegetation. By applying spectral indices and classification techniques, the study was able to accurately map and monitor mango-growing regions, helping improve agricultural planning and crop management.



Figure 1: Area of interest

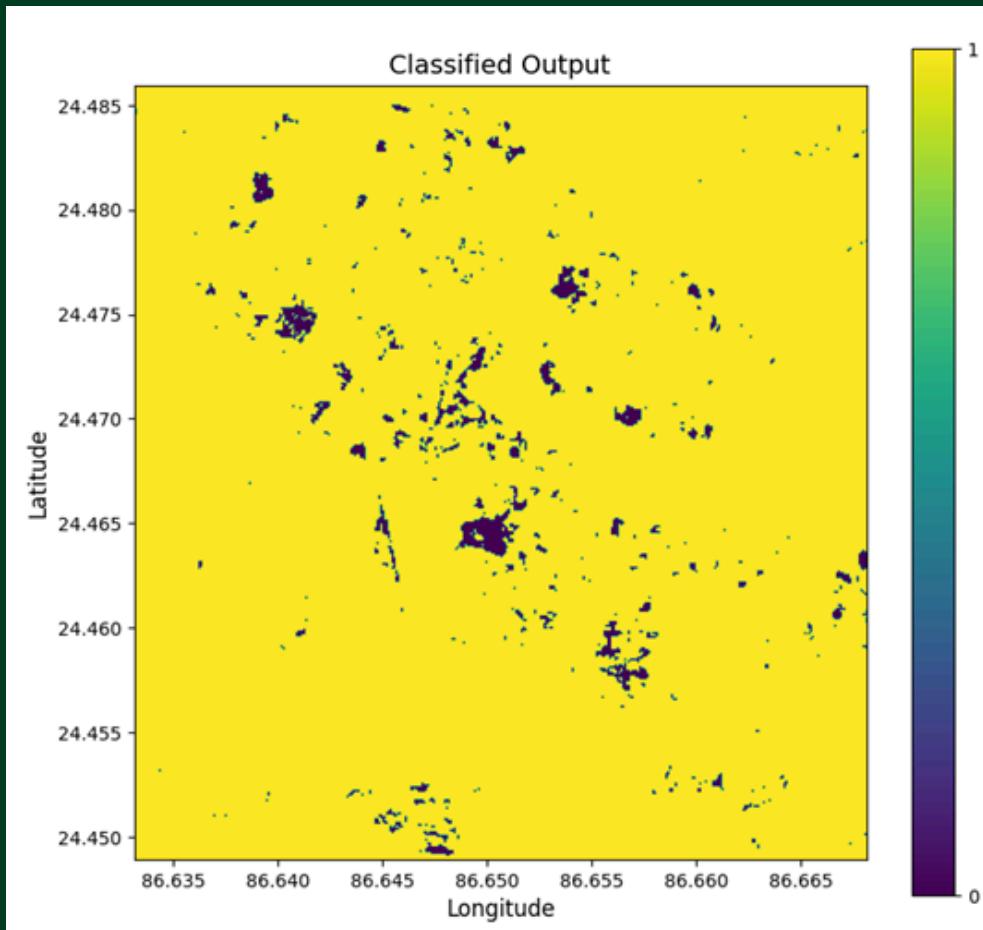


Figure 2: Classified Output

Data used: Sentinel-2

Resolution: 10 metres

Results:

- Achieved an overall classification accuracy of **86%**, demonstrating reliable model performance.
- Successfully identified mango tree species using Sentinel-2 multispectral imagery.
- Produced a clear classified output map showing the spatial distribution of mango tree species.
- Enabled semi-automated, repeatable species identification across large areas.
- Supported scalable applications in forestry management, ecological monitoring, and precision agriculture.



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