Case Study

AI-led Geo Learning Model, Reduction in Manual Effort for Indian Construction Major
Client

The client is India’s largest construction organization and ranked among the world's top contractors. It offers EPC solutions to execute large industrial and infrastructure projects from concept to commissioning on a turnkey basis with single-source responsibility.

Client Ask

• To reduce the number of man days and efforts to identify and digitize individual trees in a large forest and generate an output in a format for future purposes.
• To develop a deep learning model to detect individual trees in a dense forest region from aerial imagery and generate shape files for later processing.
LTIMindtree Solution

- Geo AI deep learning model was leveraged and further enhanced through more training samples and better system configuration.
- Open-source model that can be used on various machines and deployed on a cloud platform for usage by the organization.

Business Benefits

01 Geo AI deep learning is used for volumetric analysis.

02 The shortcomings of conventional methods are overcome with the use of ‘Drone’ as a geospatial platform.

03 Significant reduction in manual labor and time consumed for volumetric tree detection.

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