TREE IDENTIFICATION AND CLASSIFICATION

MACHINE LEARNING MODEL

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GOAL OF PROJECT

- To transform our identification and classification process from manual human to automated machine process
- Reduce the time and cost of identification and classification
- Reduce the error rate in identification and classification
- Build and implement a model that can be applied across multiple projects and clients

METHODOLOGY

- Use benchmark classification techniques for identification
- Train and test the model using binary images and extracted features in respect of:
 - Crown (size, shape)
 - Bark (texture, colour)
 - Leaf (size, shape, margin, texture)

OUTCOME

 Identify 200 species with a predetermined accuracy rate

TIMELINES AND STEPS

- Data collection
- Data processing
- Create model
- Train model
- Test model
- Production test
- Review
- Implementation

OTHER ISSUES

- Team
 - Consulting team
 - Primary contact person
 - Client
 - Who provides information?
- Information exchange and communication
 - Online submission process and tracking
- Project team meetings
- Deadline