



خراف

Kharaf

Your Essential Farming Companion





Introduction

Kharaf is a groundbreaking solution tailored to assist farmers in **diagnosing, detecting**, and certifying the **grade** of their date fruit stock and palm trees. Our platform merges innovation with agricultural expertise, offering farmers the precision and efficiency they need to optimize the health and quality of their harvests.



Problem? Solution.

Enhancing Processes, Not Just Solving Problems!

The farmer's approach isn't about troubleshooting; it's about refining processes and enhancing efficiency. Our focus lies in optimizing existing methods to elevate farming practices, ensuring seamless workflows and maximizing productivity.





Our Goals

Automation

To Automate the farm's process

Cost Decrease

To decrease cost for the farmer

Productivity Increase

To increase Productivity in the farm

Features



**Date Fruit
Classifier**

Identify Date
Fruit Kind

**Date Grade
Classifier**

Identify Date
Fruit Grade

**Date Maturity
Classifier**

Identify Date
Fruit Maturity

**Palm Tree Disease
Classifier**

Identify Palm
Tree Diseases

Technical Overview



Models Accuracy

Date Fruit Classification Model

99%

Date Grade Classification Model

99%

Date Maturity Classification Model

91%

Palm Tree Disease Classification Model

93%

Demo - Kharaf

Web App Demo



Date Type

Date Grade

Date Maturity

Palm Disease



Upload Image

Drag and Drop or Select File

SUBMIT

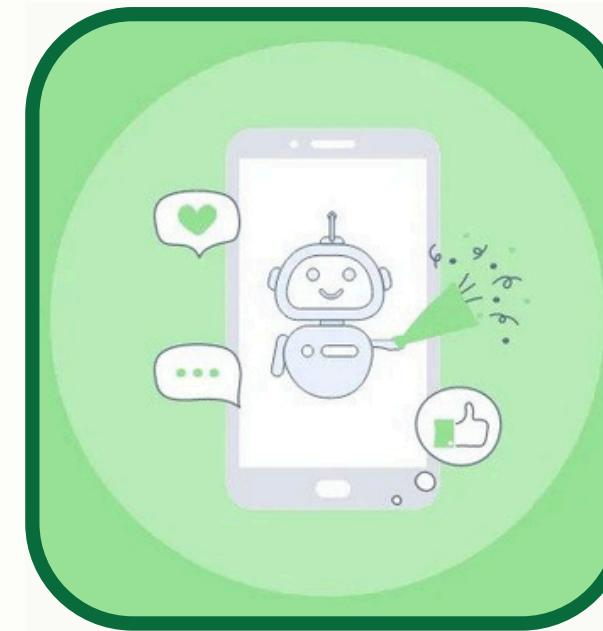


Future Work



Drone for detecting palm diseases

Drone for detecting palm diseases to decide if the palm is injured or not."



Chatbot assistant for both farmers and non-farmers

Chatbot aiding farmers and non-farmers with agriculture tips and insight



Fully automated system

Fully automated system providing comprehensive support and services for farmers.

Thank you!

Know More!

