

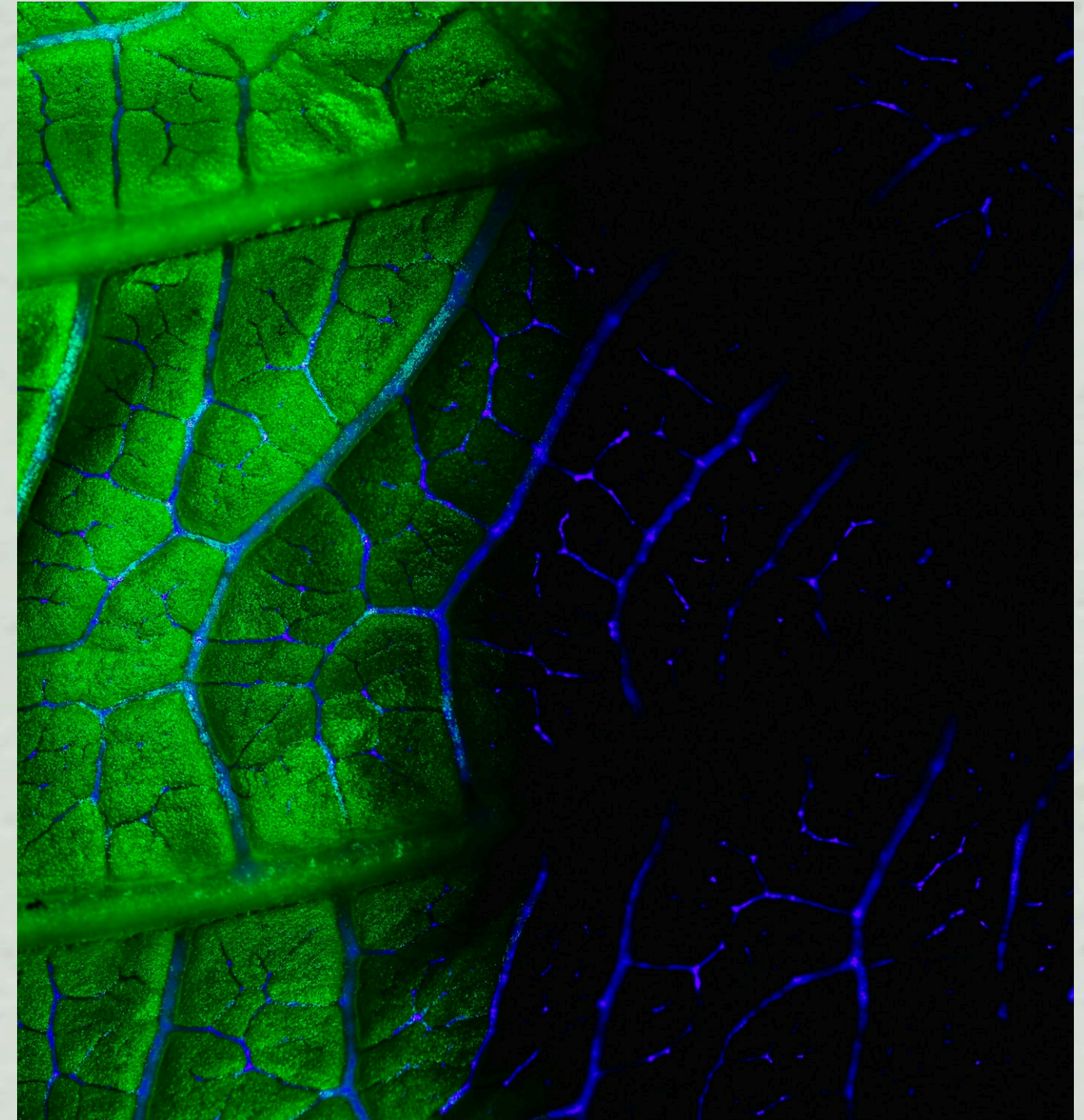
The background features abstract, stylized green leaf shapes in the corners. A large leaf is in the top-left, another in the top-right, and a cluster of smaller leaves is in the bottom-right. The leaves are rendered in various shades of green with black outlines.

# **AgriScan: The Plant Doctor**

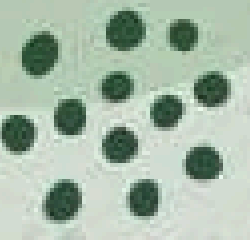
**Plant Disease Detection using Deep Learning**

# Introduction

Let us explore the potential of *Deep Learning* in revolutionizing **Plant Disease Detection** through accurate leaf image analysis. We will discuss the challenges in traditional methods and the opportunities that advanced technology brings to this crucial aspect of agriculture.

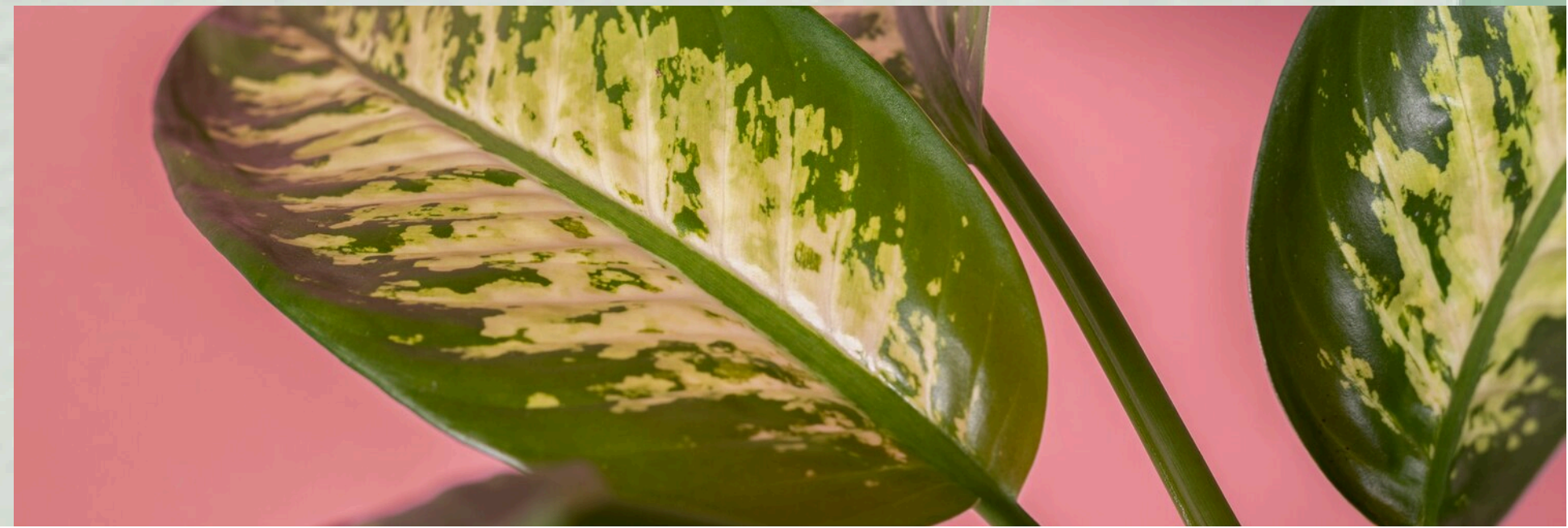
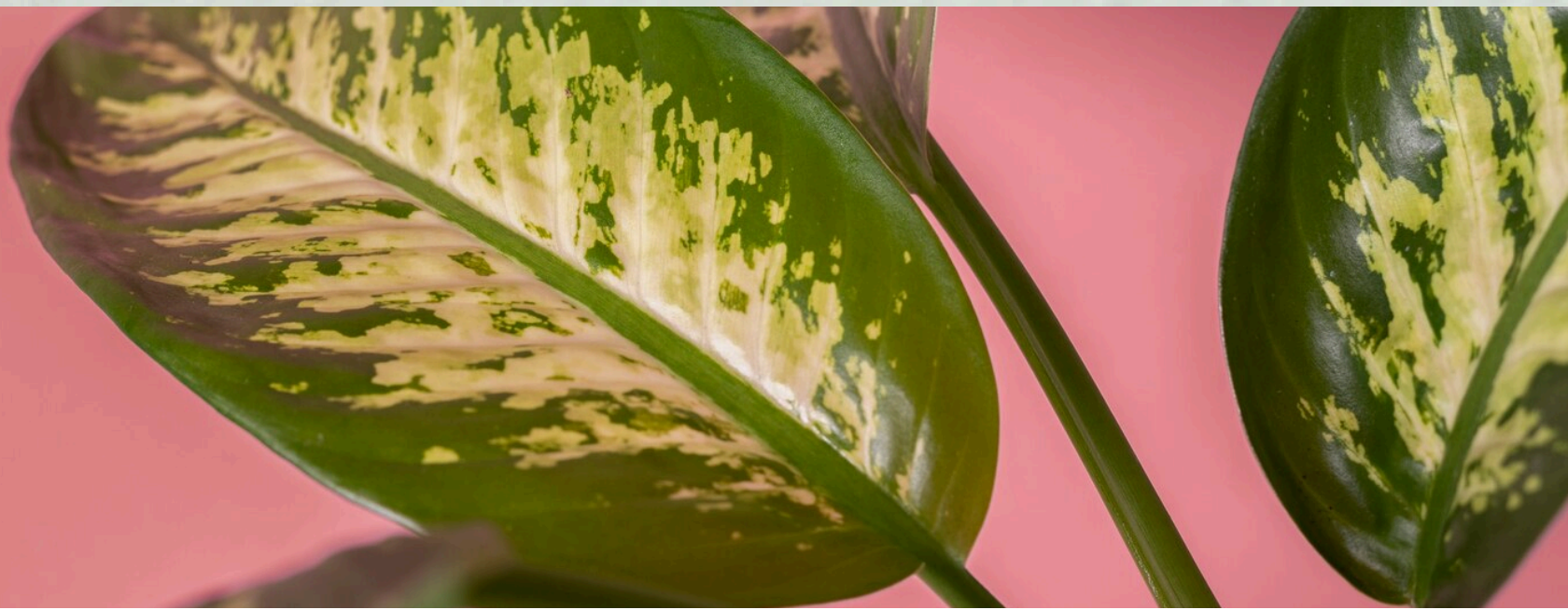






## Challenges in Disease Detection

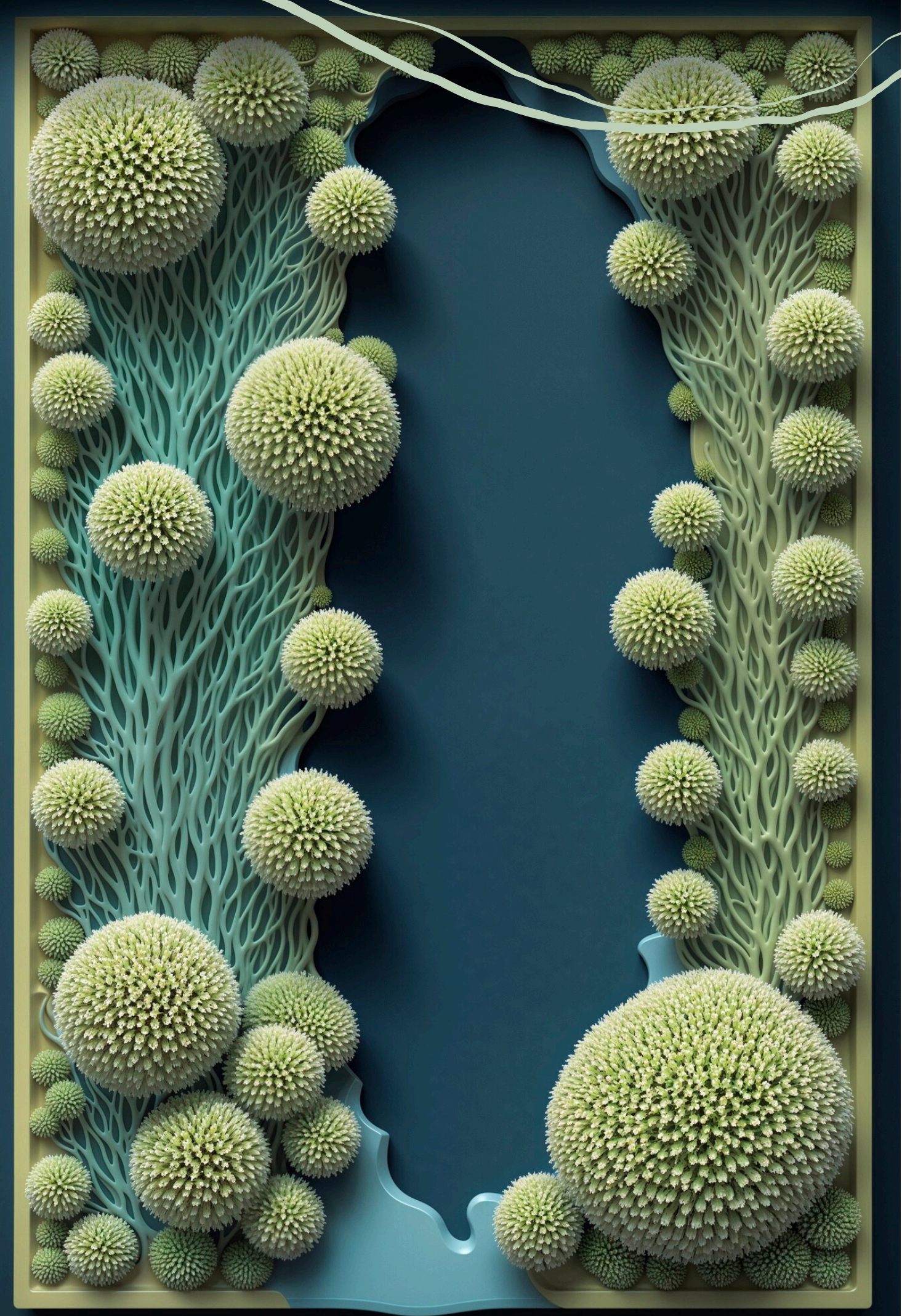
- Traditional methods rely on visual inspection
- Leads to inaccuracies and delays in diagnosis
- Manual assessment : labor-intensive and prone to human error
- Thus, the need for a more efficient and reliable approach





# Deep Learning Advancements

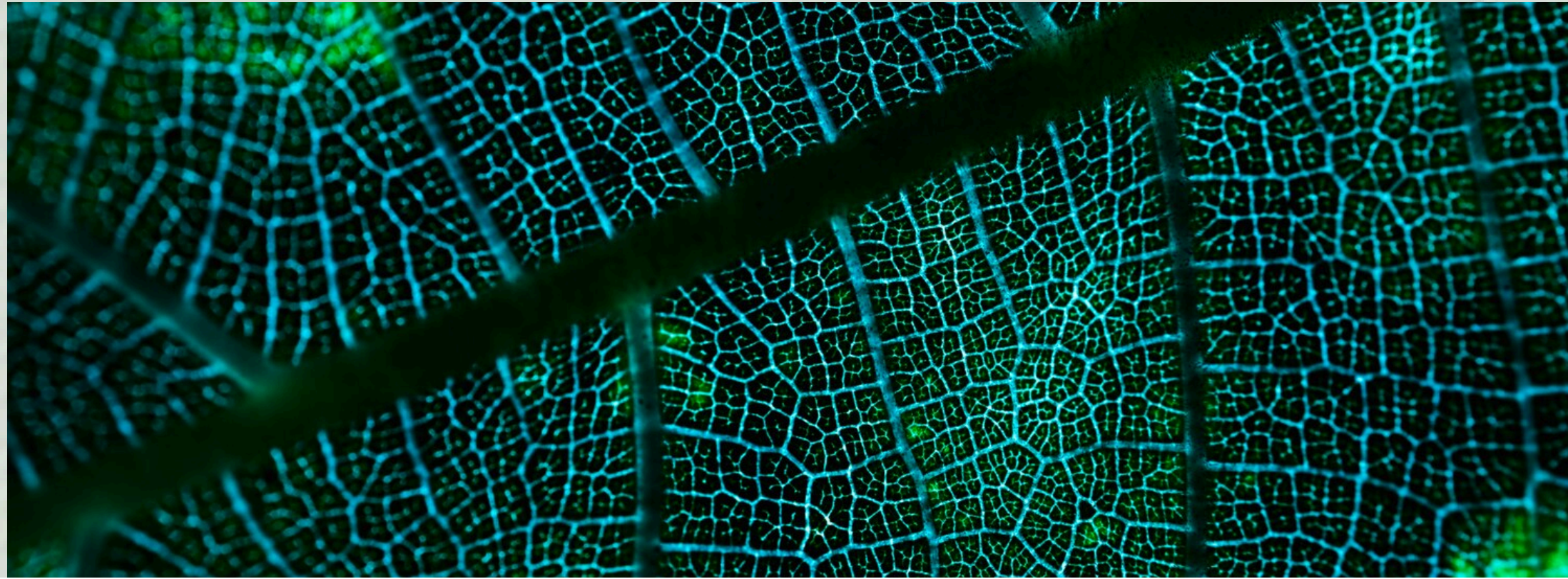
- Advanced algorithms can analyze intricate patterns and subtle anomalies in plant leaves
- Enable precise and timely identification of diseases
- Utilizing deep learning, we can achieve accurate leaf analysis by training models to recognize disease symptoms, leaf structures, and environmental factors
- Allows early detection and targeted intervention
- Improves crop yield and food security





# Tech Stack

1. End-to-end web application
2. ML models using Deep Learning Algorithms
3. Model trained using Convolutional Neural Networks (CNN)
4. Website developed using HTML, CSS, JavaScript and ReactJS
5. Backend integration using Flask API





# Conclusion

In conclusion, the AgriScan marks a pivotal advancement in agriculture. By harnessing the power of technology, we can enhance the resilience of crops, minimize yield loss, and contribute to global food security.



# Thank You!

Do you have any questions?

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