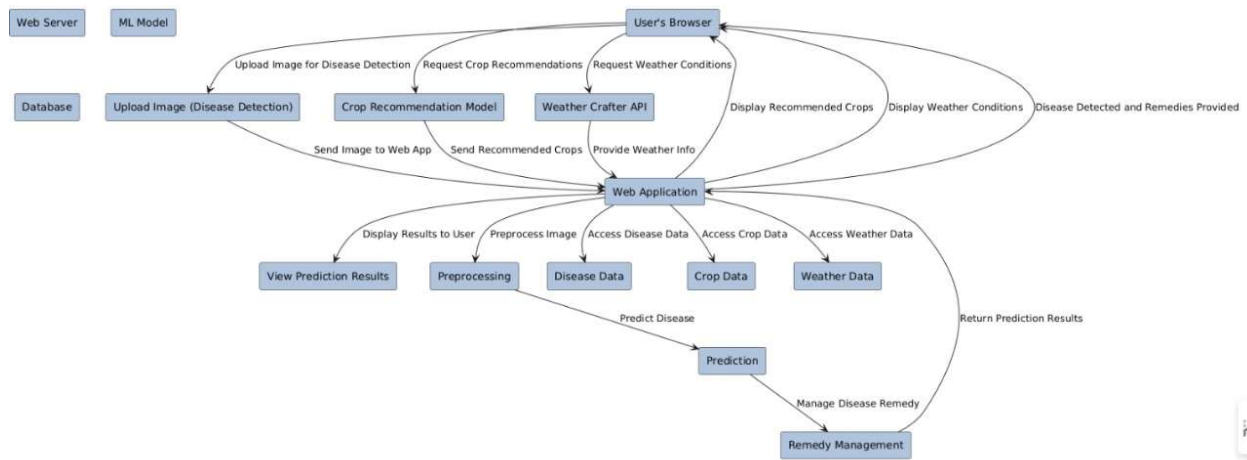


<div>PSID: SIH1638</div> <div>Project Summary Report</div> <div>Team ID: SIH158</div>		
<b>Title</b>	AI-Driven Crop Disease Prediction and Management System	<b>Theme</b> Agriculture, FoodTech & Rural Development
<b>Objective</b>	<p>The objective of our platform is to provide farmers with a comprehensive, technology-driven solution that addresses key agricultural challenges. By integrating AI-powered crop disease detection, personalized crop recommendations, resource calculators, and real-time 24/7 chat support, we aim to optimize farm productivity and sustainability. Our goal is to empower farmers with the tools needed to make data-driven decisions, improve yields, reduce resource waste, and increase profitability, while also enabling them to sell their products locally and internationally, ensuring long-term success in an evolving agricultural landscape.</p>	
<b>Synopsis</b> (Background & Purpose)	<p><b>Background:</b></p> <p>Farmers today are facing increasing difficulties due to crop diseases, inefficient resource management, and unpredictable weather patterns. These challenges directly affect crop yields and profitability, making it harder for farmers to meet the growing global demand for food. Traditional farming methods often lack the precision and timely information needed to tackle these issues effectively.</p> <p><b>Purpose:</b></p> <p>Our platform is designed to provide farmers with advanced, technology-driven tools to optimize their farming practices. By offering AI-powered crop disease detection, personalized crop recommendations, and real-time resource management</p>	

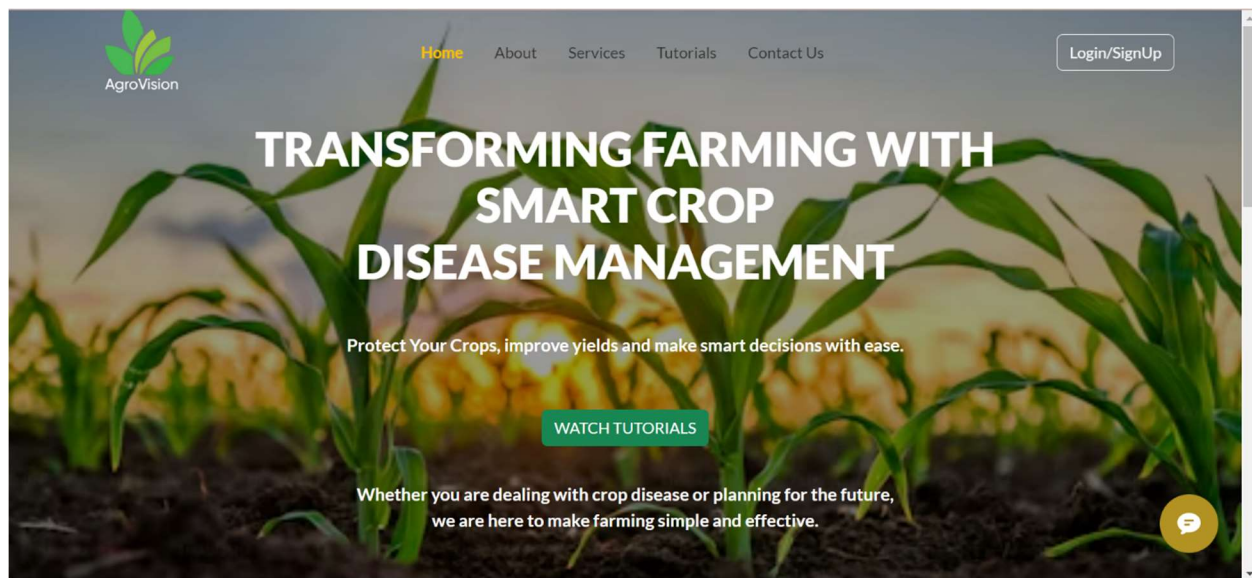
	support, we aim to enhance agricultural productivity, promote sustainability, and increase profitability for farmers worldwide.
<b>Methodology</b> (Flow Chart, Process Chart, etc.)  Along with Real Time Product Picture	<b>Attached below</b>
<b>Products</b> (Workshops, materials, skills developed)& <b>Product Availability</b>	<b>Workshops</b> <b>AI in Agriculture:</b> Training on using the crop disease detection tool and capturing high-quality images. <b>Sustainable Farming:</b> Sessions on organic farming, soil health, and pest control. <b>Weather-Based Farming:</b> Guidance on using weather data for planting and irrigation planning. <b>Crop Planning:</b> Personalized sessions on crop selection based on soil, weather, and market demand. <b>Materials</b> <b>Digital Guides:</b> Step-by-step tutorials on disease management and crop care, available offline in multiple languages. <b>Pesticide &amp; Fertilizer Manuals:</b> Dosage guides tailored to specific crops and diseases. <b>Planning Calendars:</b> Custom schedules for planting and harvesting based on weather predictions. <b>Skills Developed</b> <b>Digital Literacy:</b> Using AI tools for crop management. <b>Disease &amp; Pest Management:</b> Identifying and treating crop diseases. <b>Data-Driven Decisions:</b> Utilizing soil and weather data for crop selection.


	<p><b>Sustainable Practices:</b> Learning organic and eco-friendly farming methods.</p> <p><b>Product Availability</b></p> <p><b>Crop Disease Detection:</b> Mobile and web app, offline support, real-time updates on diseases and treatments.</p> <p><b>Personalized Crop Recommendations:</b> Integrated into the app, updated with soil and weather data, downloadable crop plans.</p> <p><b>Web Calculator:</b> Online tool for precise planning of fertilizer, pesticide, and water use.</p> <p><b>Weather Prediction:</b> Long-term forecasts integrated into the app for crop cycle planning.</p> <p><b>AI Chatbot:</b> Multilingual support for instant guidance on farming queries.</p>
<b>Outcomes &amp; Future Plan</b>	<p><b>Outcomes:</b></p> <p>Our platform has significantly improved farming efficiency by offering AI-powered crop disease detection, personalized crop recommendations, and optimized resource management. This has led to higher yields, reduced costs, and a lower environmental footprint through sustainable practices like precise water and pesticide use. The 24/7 chat feature has increased user engagement, providing farmers with real-time support and actionable insights.</p> <p><b>Future Plan:</b></p> <p>We are positioning this platform as a startup, aiming to add more features over time. Future plans include enabling farmers to sell their products directly on the platform and access international markets. We will continue to improve core features like AI-driven disease detection, personalized crop recommendations, and weather prediction to offer farmers a complete, all-in-one solution.</p>

## Flow Chart



## Website Home Page






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Explore Our Best Crop Services



Crop Disease Detection

This feature predicts crop diseases to help farmers manage their crops effectively. To use it, click on the "Predict" button. You can upload a photo of the diseased crop or enter the crop name. The model will then diagnose the disease and provide appropriate management advice based on your input.


Predict



Crop Recommendation

This feature offers crop recommendations to assist you in selecting the most suitable crops for your needs. To receive recommendations, click on the "Predict" button. Enter the required information, and you'll get accurate suggestions from the model based on your inputs.

Predict



Weather

This feature provides real-time weather predictions to help you stay informed about the current weather conditions. To get the latest forecast for your city, simply click on the "Predict" button. Enter the name of your city, and you'll receive the most up-to-date weather information tailored to your location.

Predict

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## Crop Disease Prediction



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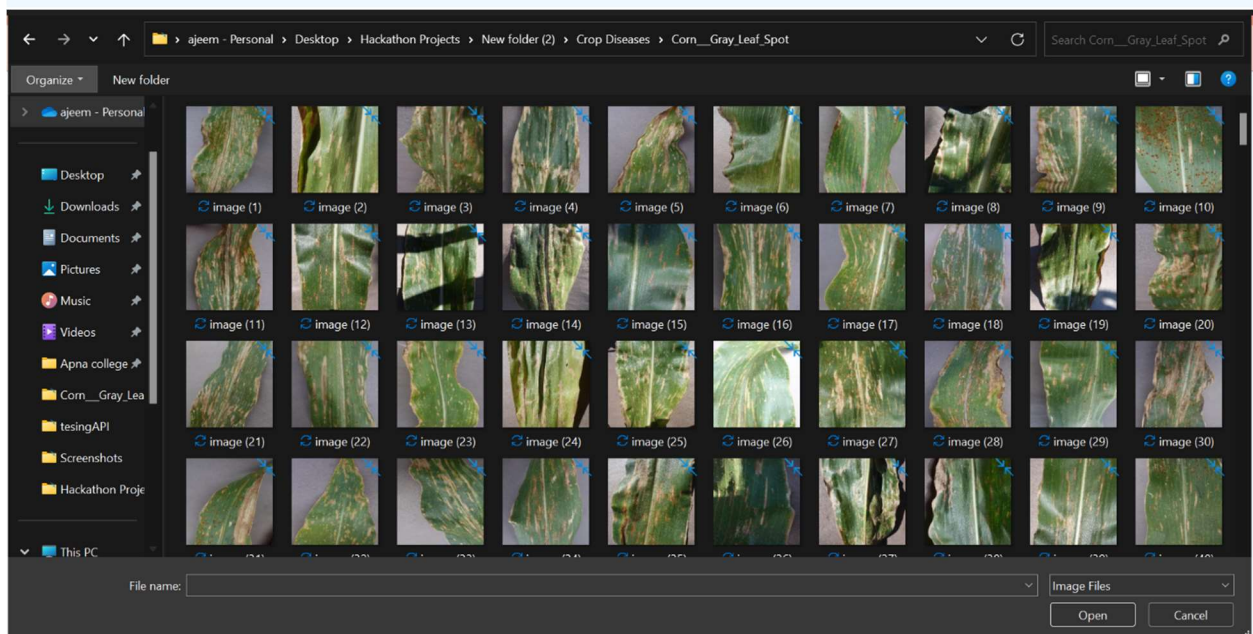
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## Crop Disease Predict

Upload your image:

No file chosen



### Crop Disease Predict

Upload your image:

Choose File

image (13).JPG

Analyze

Predicting disease in the crop

### Crop Disease Prediction Result

Predicted Crop:

Corn

Predicted Disease:

Gray Leaf Spot

Management

Showing management for the disease



Feature : Downloading PDF

## Maize Gray Leaf Spot

**Gray Leaf Spot (GLS)** is a significant fungal disease in maize, primarily caused by *Cercospora zeae-maydis* and *Cercospora zeina*. It leads to reduced crop yield and is considered a major threat worldwide.

### Factors Contributing to Gray Leaf Spot

- Environmental Conditions:** Thrives in warm, humid conditions, especially during wet weather.
- Crop Rotation:** Continuous maize planting increases the risk as the fungus survives in crop debris.
- Susceptible Hybrids:** Certain maize hybrids are more vulnerable to the disease.
- Nutrient Deficiencies:** Poor soil fertility and imbalanced nutrients make plants more susceptible.
- Planting Density:** High density creates a microclimate favorable for disease development.
- Inoculum Sources:** Infected plant debris or seeds spread the disease to healthy plants.

### Symptoms Overview

- Proper Spacing:** Ensure adequate plant spacing to improve air circulation and lower humidity.
- Organic Fungicides:** Apply organic fungicides with copper or sulfur to control fungal diseases.
- Companion Planting:** Plant companion crops that may deter fungal disease development.

### Inorganic Methods to Control Gray Leaf Spot

- Chemical Fungicides:** Use synthetic fungicides like azoxystrobin or propiconazole, applied at recommended rates.
- Nutrient Management:** Apply balanced fertilizers to keep plants healthy and less susceptible.
- Irrigation Management:** Avoid overhead irrigation to reduce leaf wetness and fungal growth.
- Monitoring and Scouting:** Regularly monitor fields for early signs and apply fungicides preventively.
- Soil Amendments:** Use inorganic soil amendments to improve plant vigor and disease resistance.

Generate PDF



## About Section

### About Us

In Agrilearn Network, we're dedicated to empowering farmers with the knowledge and tools they need to thrive in today's agricultural landscape. From expert guidance on cutting-edge farming techniques to comprehensive insights into seed varieties and efficient tool usage, we're here to support every step of your farming journey. Whether you're looking to enhance your harvest methods or optimize farm management practices, Agrilearn Network is your trusted partner for success in modern agriculture.

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#### What we do



##### Agriculture Techniques Guidance

From soil management to irrigation strategies, farmers gain comprehensive knowledge to optimize their farming practices.



##### Tool Usage Recommendations

Agrilearn Network advises farmers on the optimal usage of agricultural tools and machinery.



##### Seed Variety Knowledge

Make farmers informed decisions about selecting the right seeds for their specific crops and environmental conditions.



##### Harvesting and Farm Management

Focusing on streamlined harvesting methods and effective farm management practices.



## Our Services



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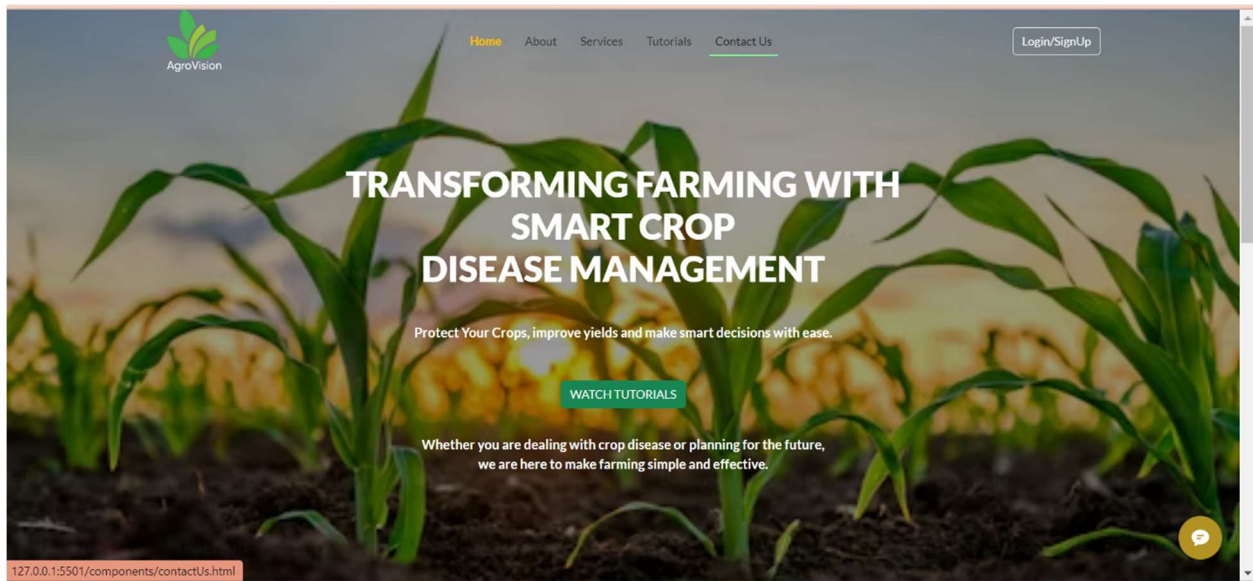
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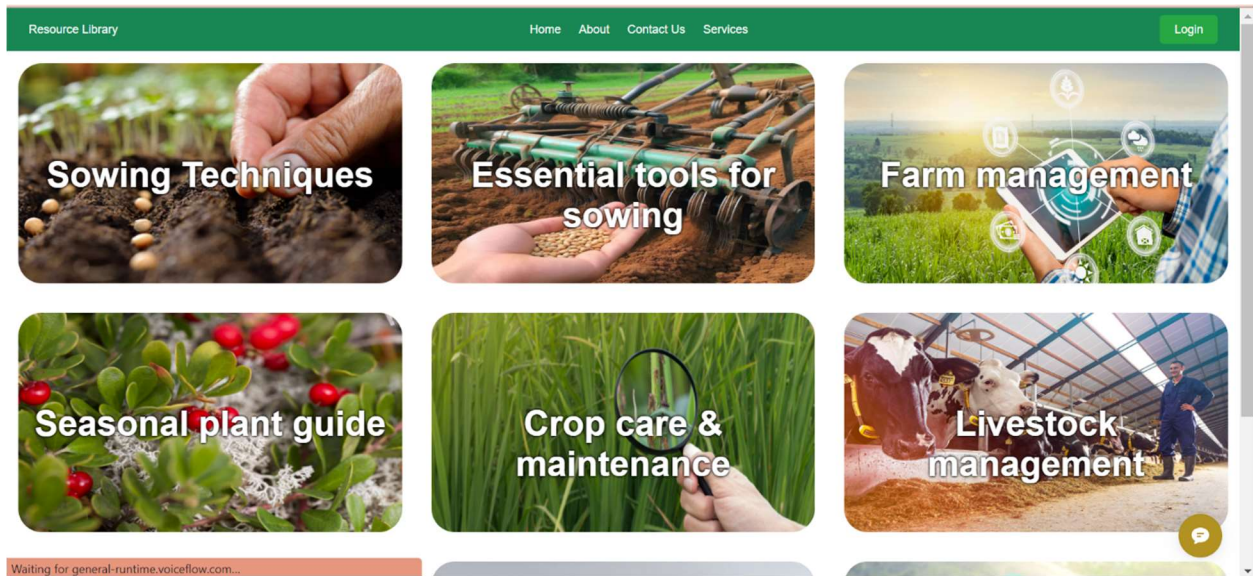
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## Weather Prediction System



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chandini@ju4@gmail.com

 **ADDRESS**  
Lovely Professional University, Jalandhar, Punjab

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Message



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## Frequently Asked Questions

How does the Crop Disease Detection feature work?

▼

What types of crop diseases can the system detect?

▼

How accurate is the disease diagnosis?

▼

Are the treatment recommendations provided by the system effective?

▼

Are the treatments provided by the system environmentally friendly?

▼

How can I use the chatbot on the website for help with crop disease detection?


▼

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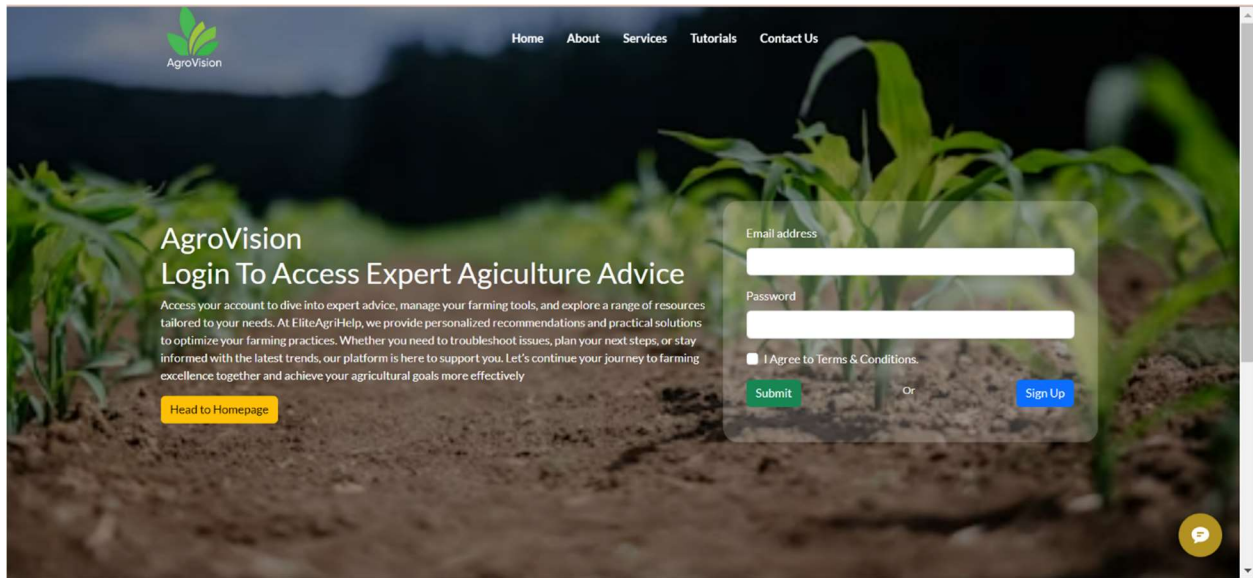
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## Login Page



The login page features a background image of a lush green field with young plants. In the top left corner is the AgroVision logo, and in the top right is a navigation menu with links for Home, About, Services, Tutorials, and Contact Us. On the left side, the text 'AgroVision Login To Access Expert Agriculture Advice' is displayed, followed by a paragraph describing the platform's benefits and a 'Head to Homepage' button. On the right side, a login form is presented with fields for 'Email address' and 'Password', a checkbox for 'I Agree to Terms & Conditions.', and 'Submit' and 'Sign Up' buttons. A small chat icon is located in the bottom right corner.

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**AgroVision**  
**Login To Access Expert Agriculture Advice**

Access your account to dive into expert advice, manage your farming tools, and explore a range of resources tailored to your needs. At EliteAgriHelp, we provide personalized recommendations and practical solutions to optimize your farming practices. Whether you need to troubleshoot issues, plan your next steps, or stay informed with the latest trends, our platform is here to support you. Let's continue your journey to farming excellence together and achieve your agricultural goals more effectively

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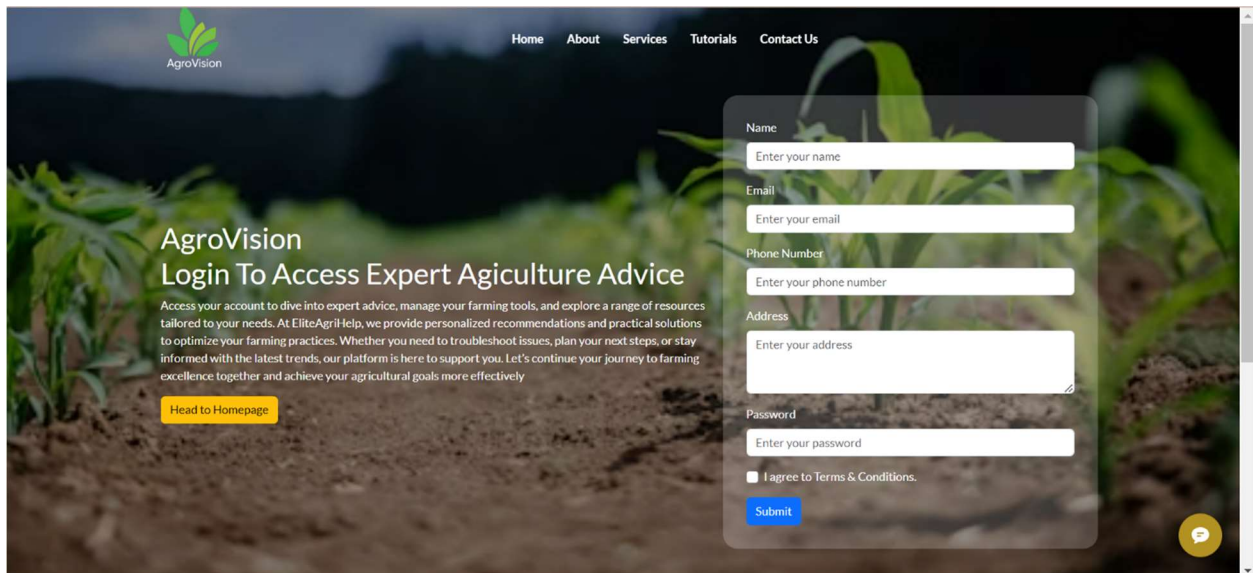
Email address

Password

☐ I Agree to Terms & Conditions.

Submit Or Sign Up

## SignUp Page



The sign-up page features the same background image and header as the login page. On the left side, the text 'AgroVision Login To Access Expert Agriculture Advice' is displayed, followed by a paragraph describing the platform's benefits and a 'Head to Homepage' button. On the right side, a sign-up form is presented with fields for 'Name', 'Email', 'Phone Number', 'Address', and 'Password', a checkbox for 'I Agree to Terms & Conditions.', and a 'Submit' button. A small chat icon is located in the bottom right corner.

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Enter your email

Phone Number

Enter your phone number

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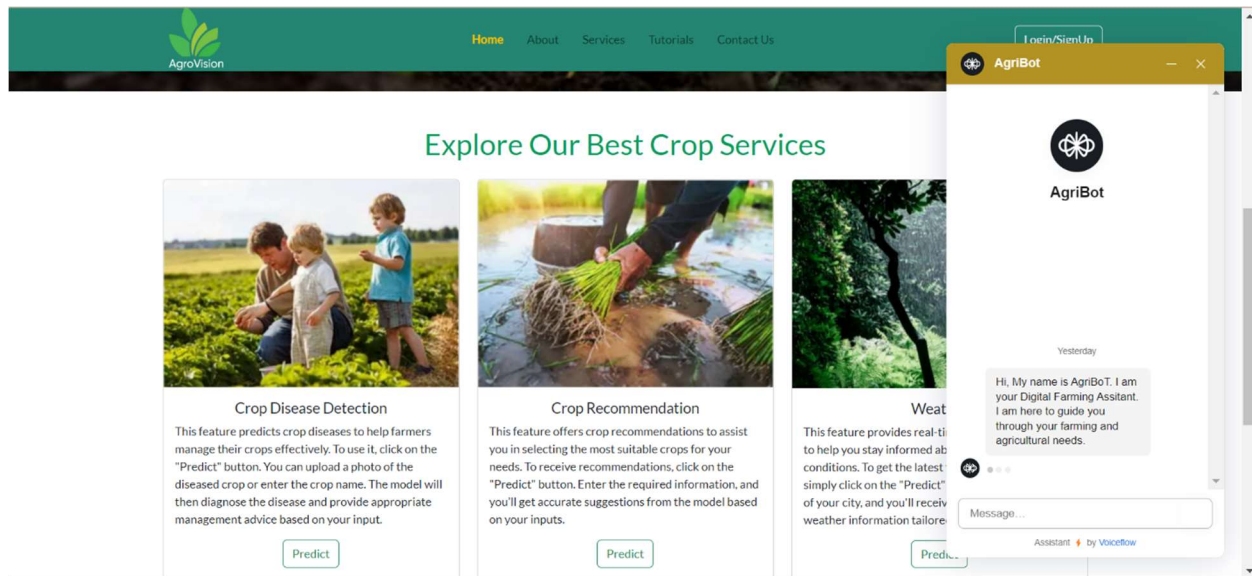
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Password

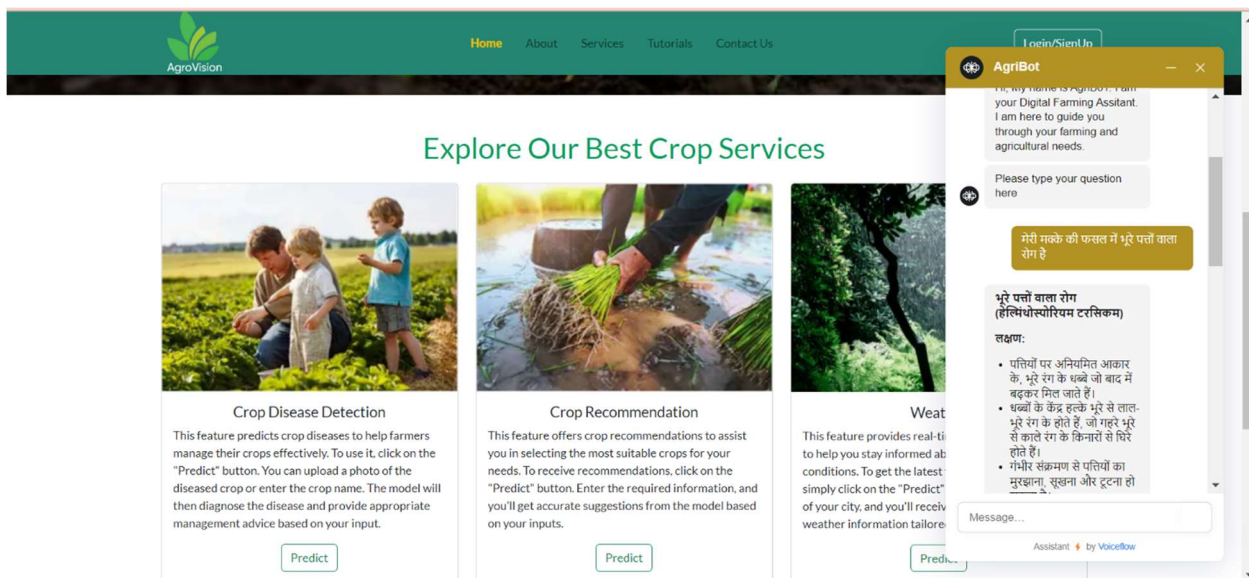
Enter your password

☐ I Agree to Terms & Conditions.

Submit



## AI Chatbot (Multi lingual)



# Crop Recommendation System

Crop Recommendation

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## Crop Recommendation System

**Nitrogen**

**Phosphorus**

**Potassium**


**Temperature**

**Humidity**

**pH**

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Recommend Crop for cultivation is:

Muskmelon is the best crop to be cultivated right there