

AgriBot

AI-Powered Assistance for Farmers

Presented by -
Team name - Pyx Duo
Team members -

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Problem Statement

FARMERS OFTEN STRUGGLE TO DETECT CROP DISEASES EARLY AND LACK ACCESS TO RELIABLE, LANGUAGE-FRIENDLY SUPPORT

Our Objective:

Develop a chatbot that:

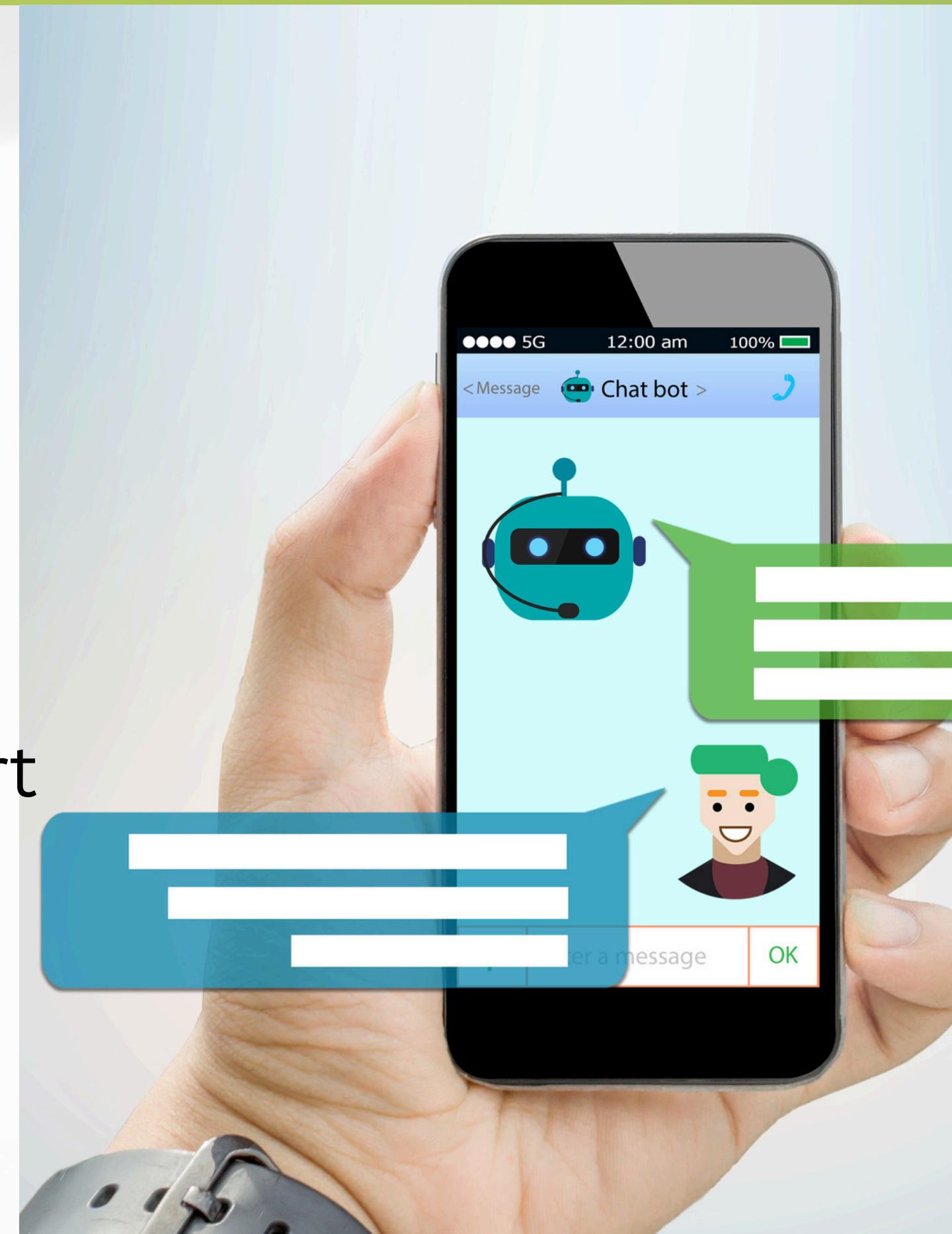
- Identifies crop diseases from images or text
- Provides treatment and prevention advice
- Supports multi-language voice interaction



SYSTEM FEATURES

Key Features

- Image Upload for Disease Detection
- Text-based Query Input
- Voice Output in English & Hindi
- Rule-based Remedies and Tips
- Multi-language and Community Support



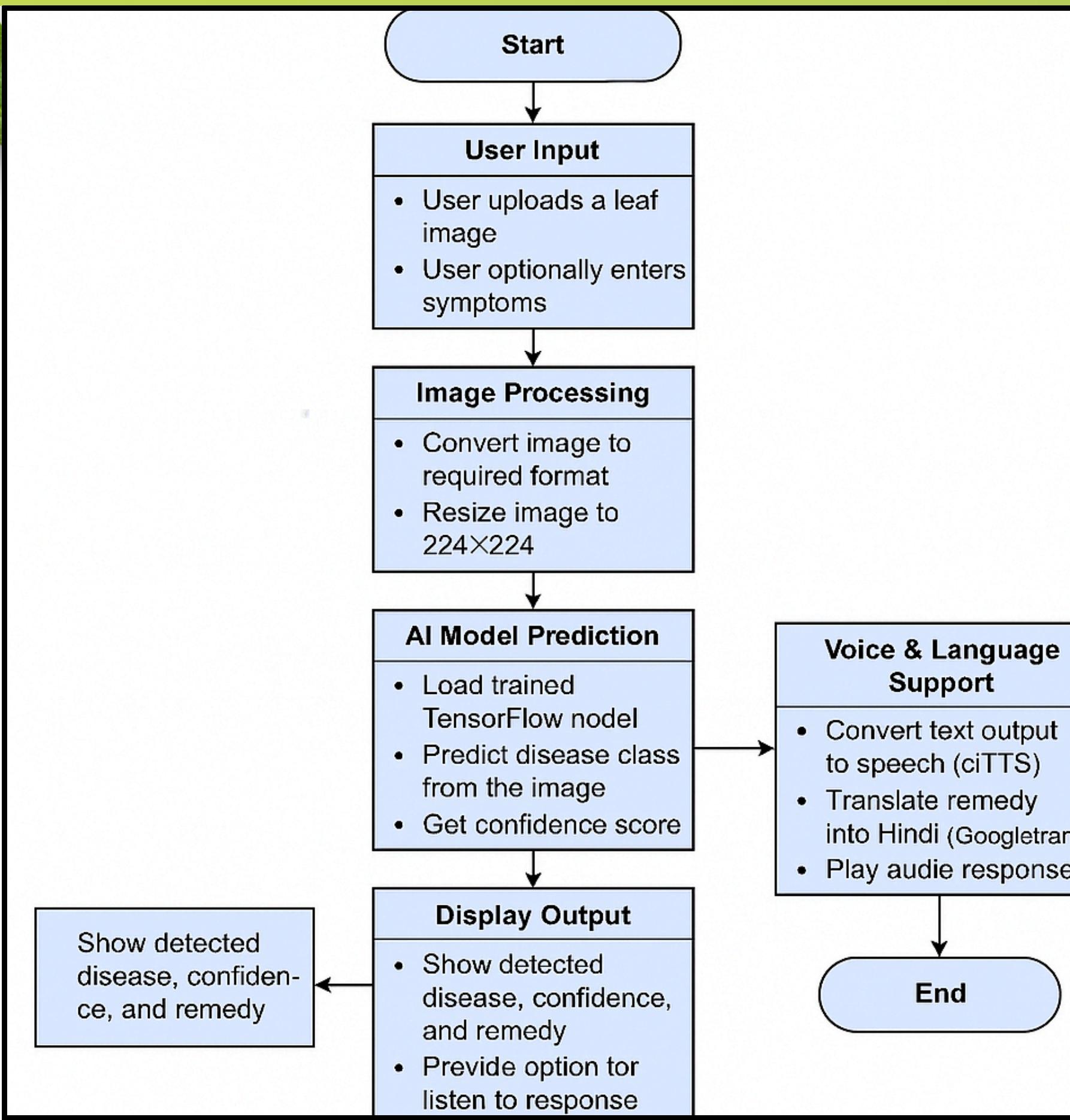
TECH STACK

Technologies used :

- **Frontend:** Streamlit
- **Model:** TensorFlow / Keras
- **Image Processing:** Pillow (PIL) & OpenCV
- **Voice Output:** gTTS (Google Text-to-Speech)
- **Translation:** Googletrans
- **IDE:** PyCharm
- **Platform:** Local Machine (Windows)
- **Dataset:** Kaggle



FLOWCHART



How it works:

- Content:
 - Data Collection & Preprocessing:** Crop disease image dataset.
 - CNN Model Training:** Classifies diseases using deep learning.
 - User Interface (UI):** Simple image upload & text input.
 - Integration with Chatbot:** Rule-based responses & AI-based insights.
 - Voice Output:** Supports Hindi & English for better accessibility.

FUTURE ENHANCEMENTS

Future Scope of Our Chatbot:

- Better UI/UX
- Seamless Integration with OpenAI
- Alert Messages & Notifications
- Multi-Language Support
- Community Support Platform



Thank You.

presented by -
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