



AGROTRACK

One App for All Your Farming Needs

ABSTRACT

AgroTrack is a digital platform that connects farmers directly to consumers, eliminating middlemen.

Key Features:

- Crop recommendations based on AI and machine learning
- Financial support for farmers
- Weather forecasting and market data
- Transparency and efficiency in agricultural trade

INTRODUCTION

- ✎ India is a major producer of agricultural goods but faces challenges such as:
 - Middlemen reducing farmer profits
 - Lack of direct consumer access
 - Unstable pricing and inefficient supply chains

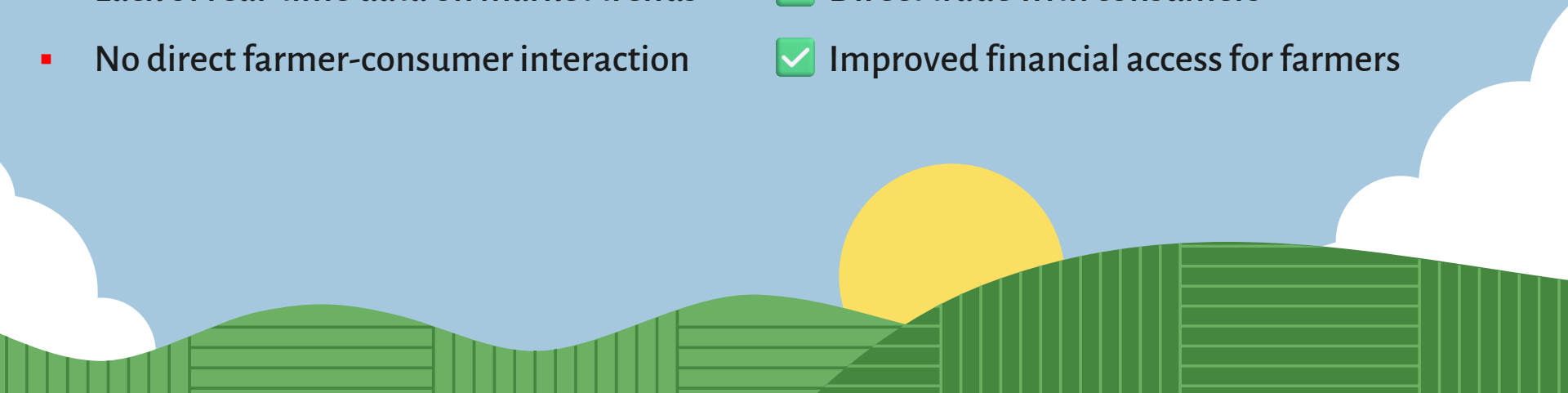
AgroTrack aims to solve these issues by providing a digital-first approach to agriculture.



PROBLEM STATEMENT

Challenges in existing agricultural platforms: **AgroTrack addresses these issues by providing:**

- Poor user interfaces for farmers
- Lack of real-time data on market trends
- No direct farmer-consumer interaction
- ✓ Real-time pricing and weather data
- ✓ Direct trade with consumers
- ✓ Improved financial access for farmers



LITERATURE REVIEW

Existing Agricultural Platforms:



- Iffco Kisan App: Slow performance, intermediary reliance
- Krishi Network: Limited rural accessibility
- AgriApp: User experience issues
- Farmers Livestock India: Data reliability concerns

How AgroTrack is different:



- ✓ Faster performance
- ✓ Direct trade
- ✓ AI-driven decision-making



METHODOLOGY

Front-End: User-friendly design for farmers using:
HTML5, Tailwind CSS, React JS, Shadcn/UI.

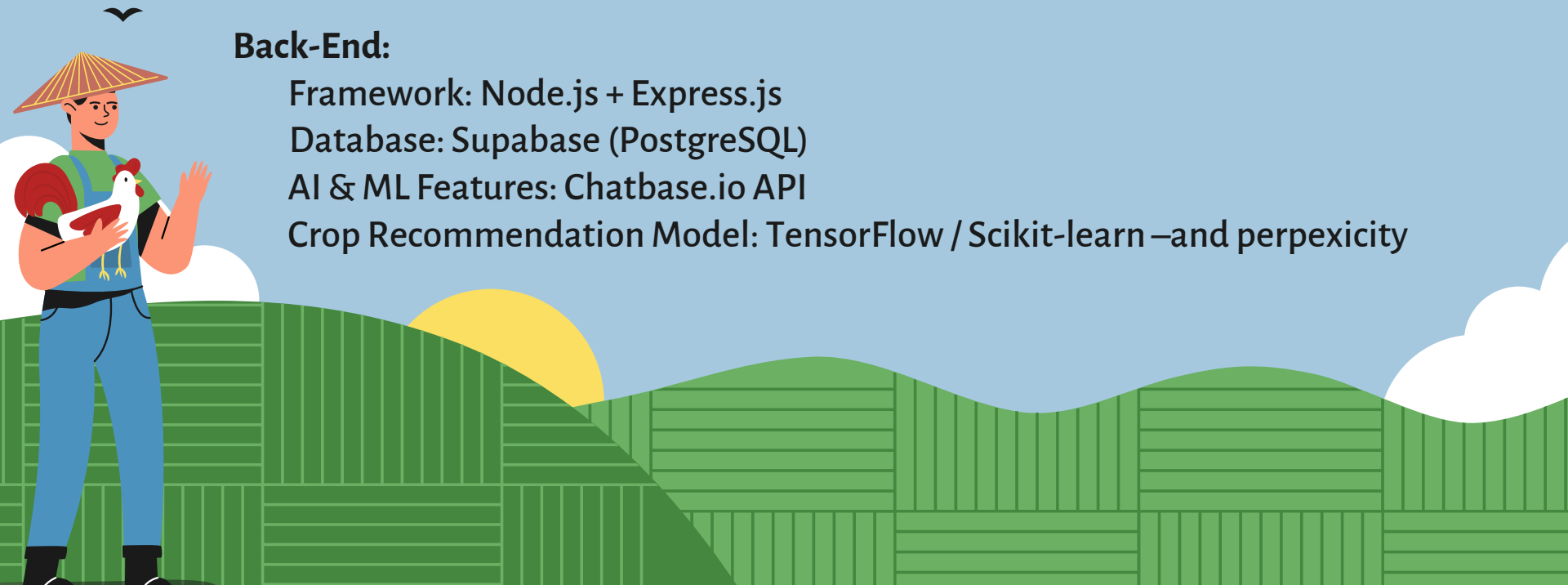
Back-End:

Framework: Node.js + Express.js

Database: Supabase (PostgreSQL)

AI & ML Features: Chatbase.io API

Crop Recommendation Model: TensorFlow / Scikit-learn –and perplexity



KEY FEATURES

- ✓ Direct Market Access – Farmers sell produce directly
- ✓ AI-Based Crop Recommendations – Optimized farming decisions
- ✓ Real-time Weather Forecasting – Better planning
- ✓ Financial Support – Microfinance & small loans



RESULTS & IMPACT

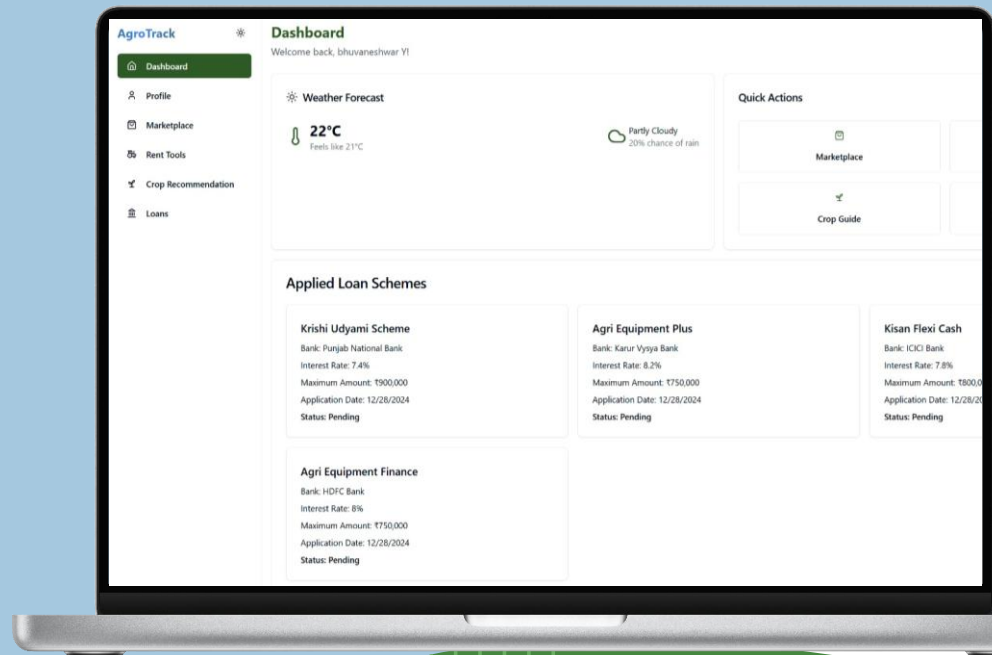
- Increased farmer profits by eliminating middlemen
- Improved decision-making with AI-driven recommendations
- Trust & transparency between farmers and consumers



LIVE DEMO

COMPUTER

Try out AgroTrack on the web:
Your farming companion,
just a click away! [Click Here](#)

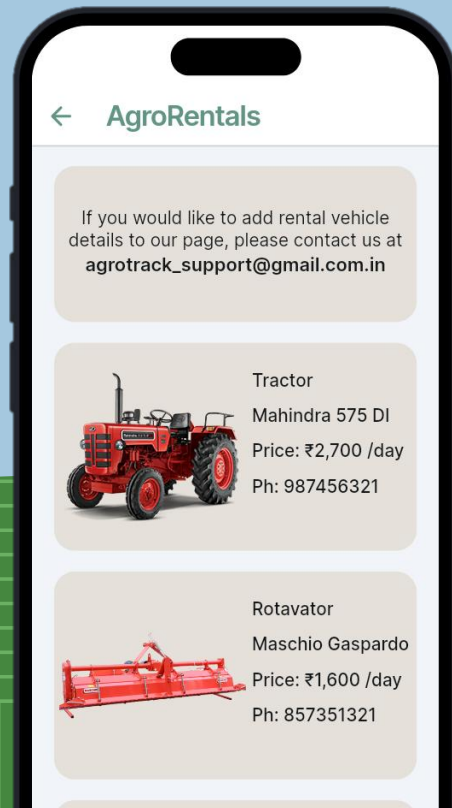
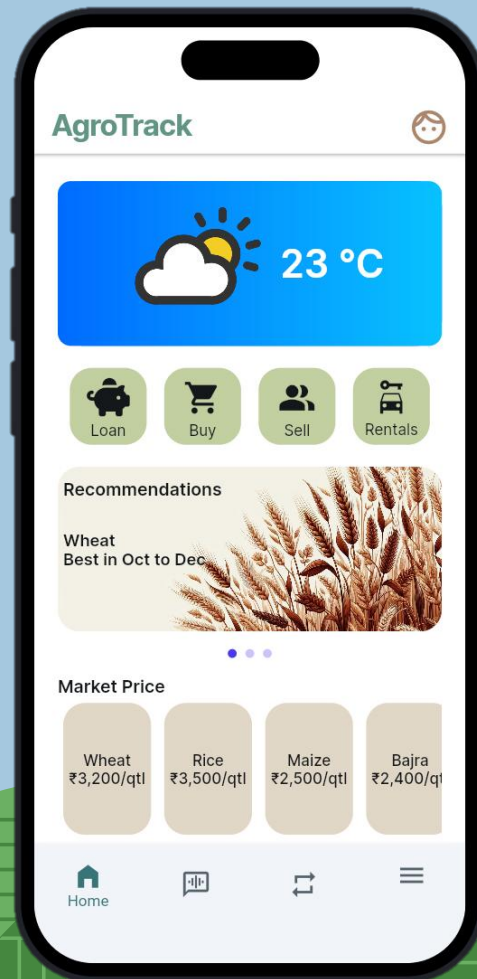


LIVE DEMO

PHONE

Experience AgroTrack on mobile:
Smart farming, always within reach!

[Click Here](#)



CHALLENGES & FUTURE SCOPE

Current Challenges

- Limited internet access in rural areas
- Farmers adapting to digital solutions
- Initial investment costs for small farmers

Future Enhancements

- ✓ Offline mode for low-connectivity regions
- ✓ AI-powered demand prediction
- ✓ Blockchain-based secure transactions

CONCLUSION

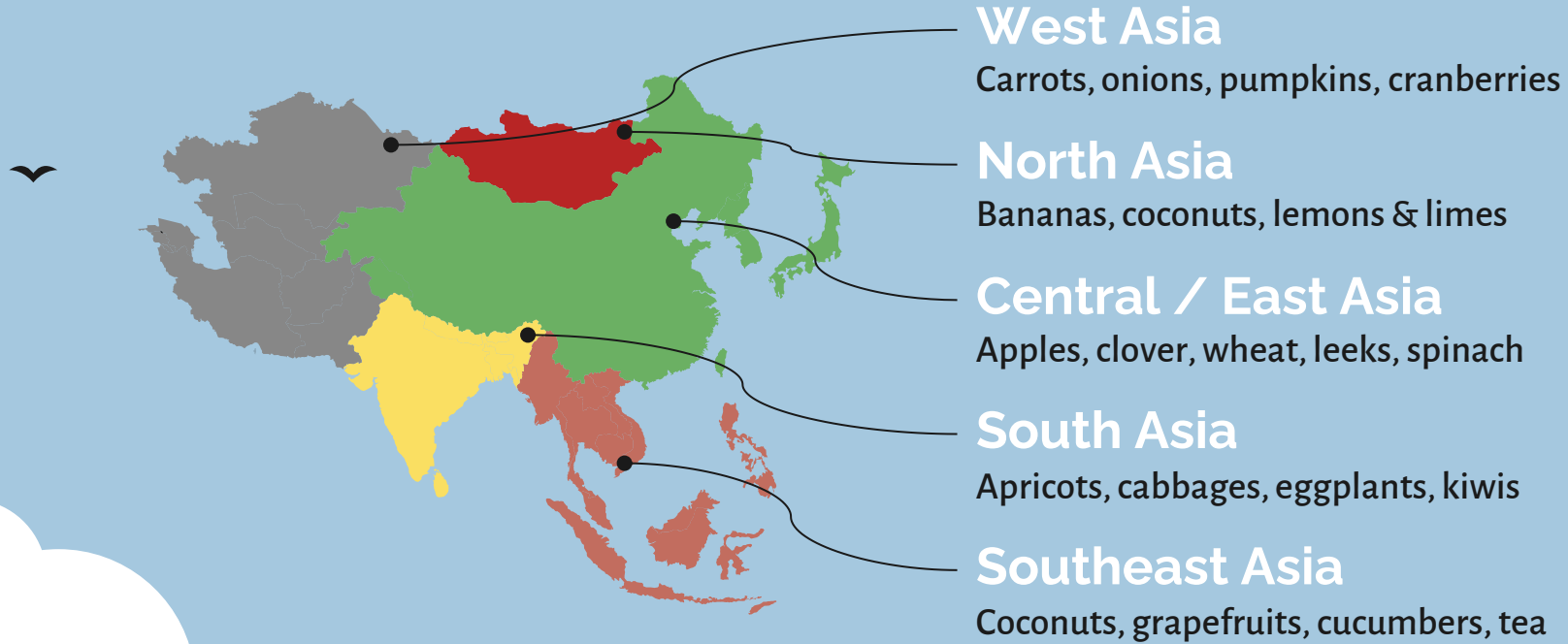
AgroTrack bridges the gap between farmers and consumers, ensuring:

- ✓ Direct trade and fair pricing
- ✓ AI-powered crop and market recommendations
- ✓ Sustainable and efficient agriculture

Future expansions will focus on AI integration, predictive analytics, and increased farmer adoption.



SOME CROPS OF THE REGION





Smart Farms

Smarter Future

THANK YOU

