

Empowering Farmers with Al-Driven Insight

Team Rush

- -AYUSH BISEN
- -SMEET SHERKI

Problem statement

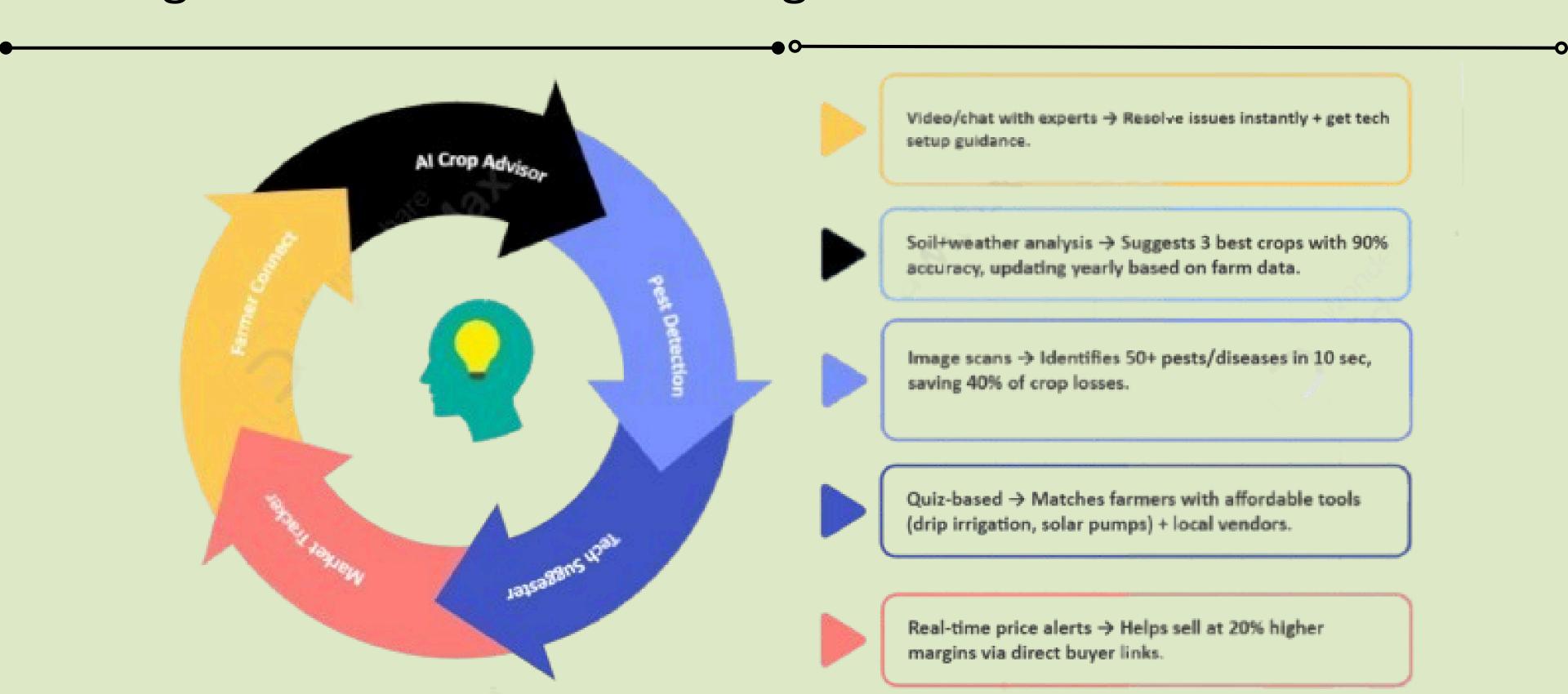
• Farmers today battle invisible enemies – pests they can't diagnose, markets they can't access, and technologies they've never heard of.

Bridging this gap isn't a choice—it's survival.....

Key Challenges:-

- Behind on farm tech
- No access to fair prices
- Few experts to help
- Can't afford new tech
- Middlemen take most profit

"Krishi Saathi" connects small farmers with smart technologies, real time expert guidance, and fair markets to maximize their harvests, building a sustainable future for agriculture.







Next.js 14, shadcn/ui, React Native



FastAPI, Redis, Celery

AI/ML

Hugging Face, AWS Rekognition, GPT-40

Database

Supabase, Firestore, Pinecone

APIs

OpenWeatherMap, LiveKit, AGMARKNET

Security

Supabase Auth, JWT, Tesseract

Deployment

Vercel, Modal Labs, Docker



- Impact
- **FEMPOWER Farmers-** AI-driven insights level the playing field for smallholders
- **Boost Productivity -** 30-50% higher yields through optimized crop/pest management
- Conserve Resources Reduce water/fertilizer waste by 40% with precision farming .

- What Makes Us Different?
- Al-Driven Decisions Realtime crop/pest analysis using computer vision
- Rewards System Farmers earn XP points for using smart practices
- ✓ End-to-End Ecosystem -Combines farming tech, expert help, and market access
- **✓ Verified Networks Direct** links to trustworthy suppliers and fair markets

- Key Benefits
- **Q** Smart Decision-Making
- Real-time crop recommendations
- Instant pest diagnosis (90%+ accuracy)
- Direct Market Access
- Fair price alerts via AI market tracker
- Bypass exploitative middlemen
- **Tech Democratization**
- Local-language tech suggestions
- Vendor connections for tools/equipment
- **© #** Expert Network
- 24/7 video consultations
- Regional best practice sharing

THANK YOU!

Empowering Farmers, Nourishing Nations