Cultivating the Future of Farming: Natural Farming Chat



A collaborative project by Team Tonic & Copyleft Cultivars

Empowering Sustainable Agriculture with Al

- Growing food sustainably is crucial for our planet's future.
- Farmers need accessible and accurate information to make informed decisions.
- Natural Farming Chat aims to bridge the gap using the power of Al.

Problems:

 Small-scale farmers lack access to customized solutions for their specific needs, cultures, and local conditions. Food insecurity,
Environmental degradation,
& Climate Change change the landscape of farming.

 Industrial agriculture over-relies on expensive synthetic fertilizers and pesticides which damage marginalized communities and ecologies.

 Indigenous farming knowledge and languages with embedded locational knowledge face threats of dilution and disappearance. We've been working on solutions to these issues and welcome you to join us!







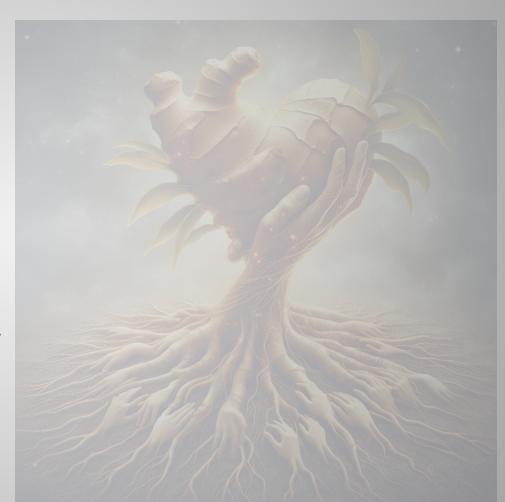
Our Mission

Protect, publish, and preserve vulnerable plants, using copyleft, research, and education.

A Community Commons for Vulnerable Plants

Our prototypes:

1. From Text to Expertise: We built a prototype using Vectara's indexing and chat APIs to create an interactive dialogue system. Users could ask questions and receive accurate answers based on a vast database of agricultural knowledge. While we encountered some technical hurdles, it laid the foundation for further exploration.

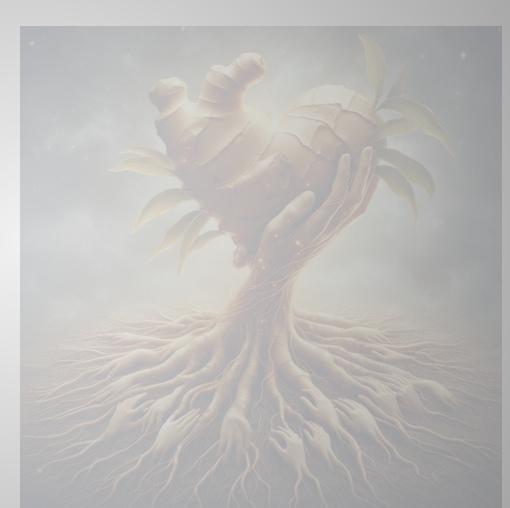




Our prototypes:

2. DIY Solutions for Sustainable Farming:

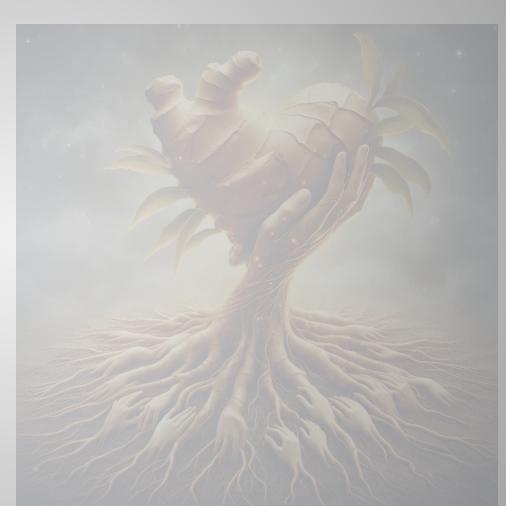
Undeterred, we embraced the challenge and pivoted to Chaindesk, a Vectara competitor. This allowed us to develop a working version that empowers users to create custom organic fertilizers tailored to their specific crops and geographic location.



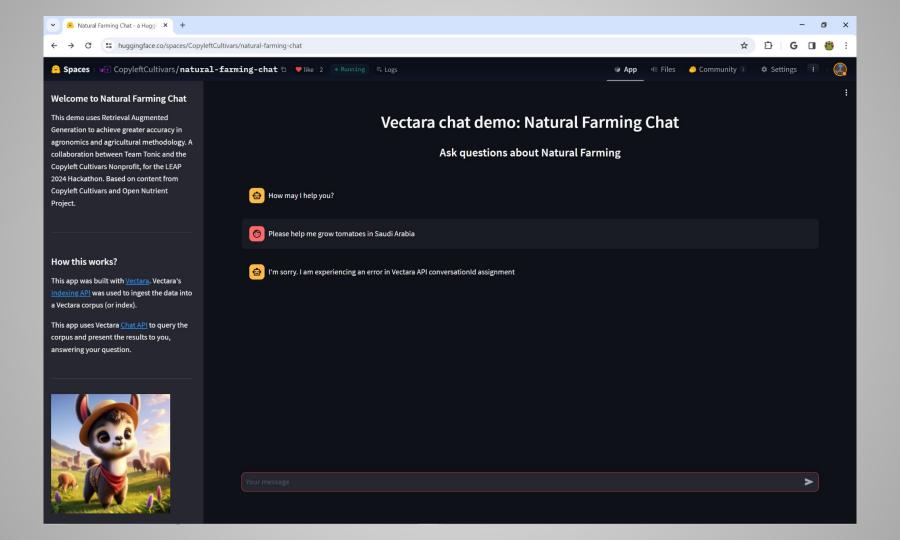


Our prototypes:

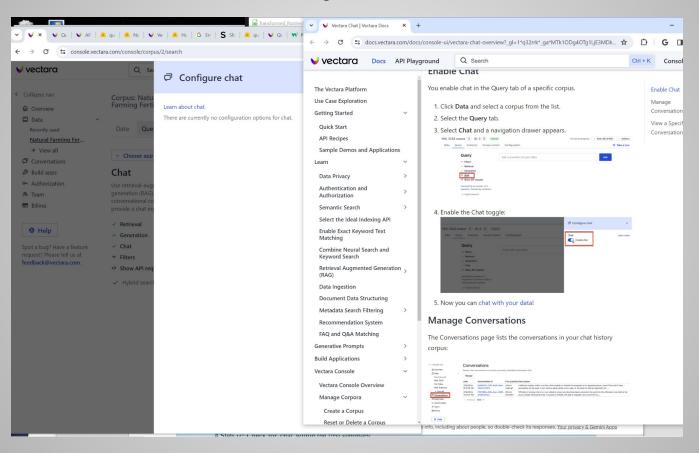
3. Pushing the Boundaries: Our ambition led us to explore local deployments and advanced functionalities. We successfully utilized Ollama, but integrating RAG elements locally proved tricky. Additionally, we attempted a more advanced version on Hugging Face Spaces, encountering a technical hurdle with model weights, leaving it unfinished for now.







Error internally with Vectara



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Hi, I'm a limited test version of the Natural Farming Fertilizer Assistant, I was created by Copyleft Cultivars, a nonprofit working to protect vulnerable plants using copyleft (protected open source.) I've been trained on a library of organic farming, natural farming, and botanical disease diagnostics sources, as well as a community-created quide for nutrient accumulation in forageable plants for fertilizer production. Please remember that I am a very early test version so there may be inaccuracies. My processing is limited so say "continue" if I stop too early. Welcome! Please tell me about your farm or garden, your goals here, the crops and scale of your farm or garden, and your location.

I am in Washington State. I am hoping to save mon





คน FPJ จากพิชพ์องถิ่น: ใช้พิชต์มิในโตรเจน สูงในท้องถิ่นแทนตันกะเพราและคอมฟรีย์ มิลเมล็ดพิชห์องถิ่น: ใช้มิลเมล็ดพิชห์อง ถิ่นแทนมีลเมล็ดฝ่าย

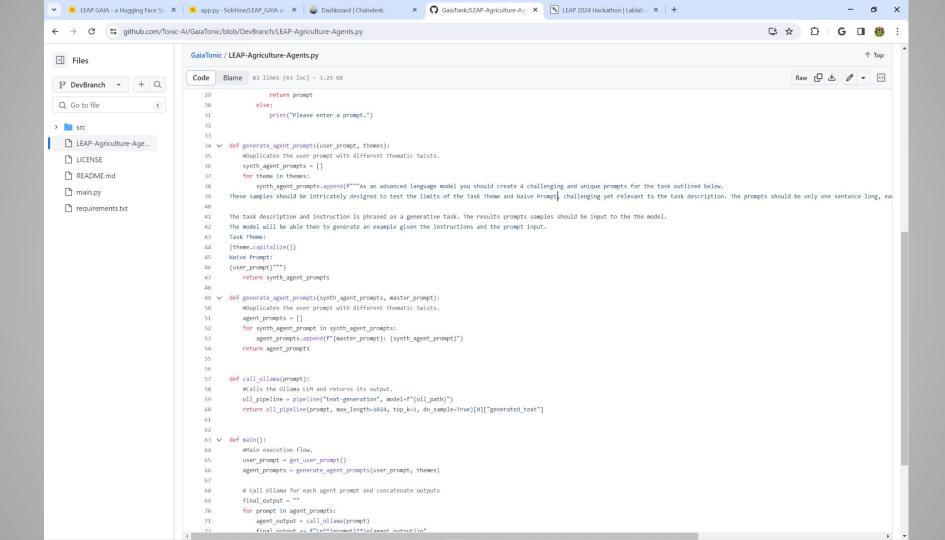
ของเสียจากปลาห้องถิ่น: ใช้ของเสียจาก ปลาจากตลาดห้องถิ่นเพื่อสร้าง FAA

คำพูดสนับสนุน

การเดินทางของคุณเข้าสู่การเกษตรธรรมชาติ
เป็นขั้นตอนที่มีพลังในการเป็นอิสระและการดูแล
สิ่งแวดล้อม คงความเรียนรู้ ทดลอง และแบ่งปัน
ประสบการณ์ของคุณกับชุมชน ความพยายาม
ของคุณจะนำไปสู่ผลผลิตที่อุดมสมบูรณ์และ
โลกที่มีสุขภาพดีขึ้น

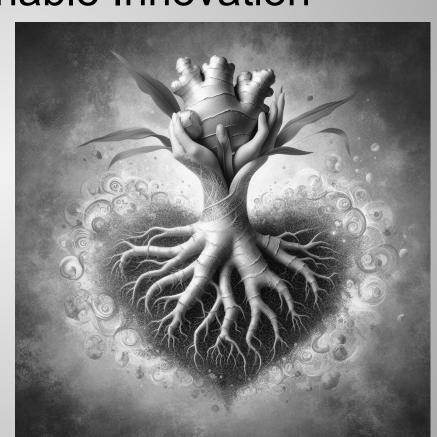


Powered by Chaindesk



Team Tonic & Copyleft Cultivars: A LEAP in Sustainable Innovation

- Our team comprises members from the USA and France, bringing diverse perspectives.
- Team Tonic's expertise in Al development is combined with Copyleft Cultivars' commitment to open-source agriculture.
- This collaboration fosters innovation and a global impact.



Cultivating a Sustainable Future, Together

- Natural Farming Chat offers a glimpse into the future of Al-powered sustainable farming.
- We are committed to continuous development and collaboration.
- Join us in shaping a future where sustainable farming is accessible and empowering for all!