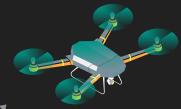




Drona

Drones + Agents = Conversational Aerial Robots 🤖







The Current State of Autonomous Agents

Autonomous Agents Today:

- Limited to computer interfaces.
- No real-world robot interaction.

Computer based tools:

- Coding tool
- Search tool
- Web scraper tool







Drona: Drone-Agent



Give Autonomous Agents Wings:

- Drone Control Software
- Inspired by Dronacharya: the wise teacher.



Beyond Joysticks and Keyboards:

- Natural Language Commands.
- "Emotional Brain" for empathy and interpretation.



Safe and Ethical Drones



Privacy vs. Safety.

Drones embedded with software and hardware that breach privacy.

Manufacturers often employ these to track and even disable drones if they're repurposed for illegal activities, such as weapons or espionage.





Drona: Prioritizing both.

Drona challenges this paradigm, offering a system where both safety and ethical considerations are prioritized by the agent.

Agent understands human intentions and follows safety guidelines without sharing data with manufacturers.



Features



Safety and Ethics

Follows guidelines on ethical commands



Multilingual

Multilingual Support - Hindi, German, and Japanese tested



Follow-me

Human Follow around



Find my location

Location based control



Task breakdown

Complex Task Decomposition



Drones in Agriculture



\$10 billion

Market size by 2028

CAGR of 28.63% between 2021-2028 in the US

\$12 per Acre

ROI

For maize and \$3 per acre ROI for wheat



Water usage reduced

Compared to manual spraying



Disaster Relief Drones





• TIME IS CRITICAL

DELIVER SUPPLIES

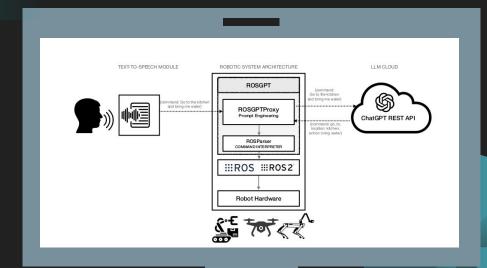
NO LEGISLATION

880 LIVES SAVED



Tech Stack

- 1. ROS2 Humble
- 2. Gazebo
- 3. Langchain
- 4. Next.js

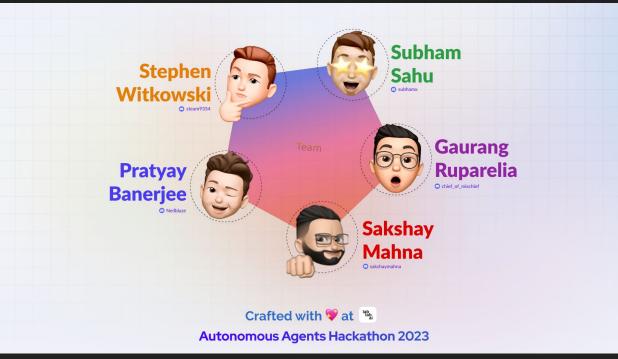




TEAM













Thank You

- Team Drona





