

# HACKNATICS

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"An AI agent that autonomously welcome users, delivers an interactive website demo by navigating through different pages, and intelligently responds to user's voice commands in real time."



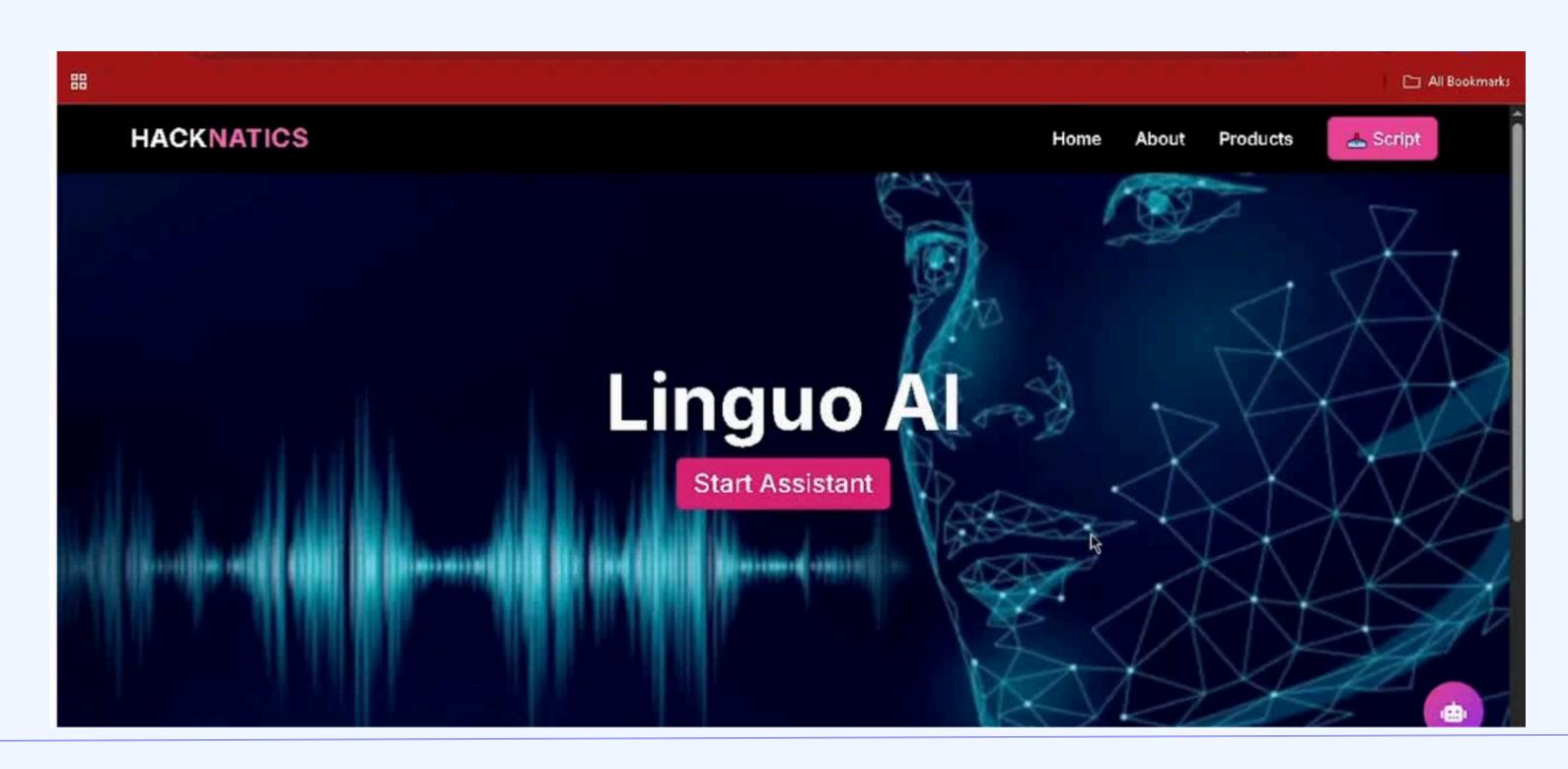
## **Business Viability**

Our Smart Agent enhances user engagement and product understanding by autonomously guiding visitors through interactive website demo and responding to real-time user's voice commands by

showcasing products key features. It reduces the need for manual support, and delivers a modern, hands-free user's experience. It's scalable and customizable design makes it valuable across industries aiming to boost customer interaction and automate demos efficiently..



## **Product Demo**



## Solution Overview

## What We're Solving

Manual website demos are outdated, repetitive, and unscalable. Users expect real-time interactivity, personalization, and simplicity — but most businesses struggle to deliver that experience efficiently.

#### Our Solution

We've built an intelligent AI agent that:

- Autonomously welcomes users on your website
- Navigates through key pages, offering a live, interactive tour
- Listens and responds to voice commands in real-time
- Delivers product education hands-free
- This removes friction, reduces dependency on manual support, and increases engagement with modern, AI-powered interaction.

### Technical Architecture Overview

#### Frontend Stack

Our frontend is designed with performance, scalability, and modern UI/UX in mind:

- Framework: Next.js 14.2.2 Blazing-fast rendering with file-based routing.
- Language: TypeScript Type-safe development for better code quality.
- Styling: Tailwind CSS Utility-first CSS for rapid, responsive design.
- UI Components: Lucide Icons Clean and lightweight icons for modern UIs.
- State Management: useState, useEffect Efficient handling of UI logic using React Hooks.
- Routing: Next.js native routing Simplified navigation and dynamic routes.

#### Backend Stack

- Framework: FastAPI
- High-performance Python web framework for APIs.
- Language: Python
- Widely used, scalable, and ideal for AI and automation.
- Speech Tool: gTTS (Google Text-to-Speech)
- Converts AI agent's responses into human-like speech in real time.