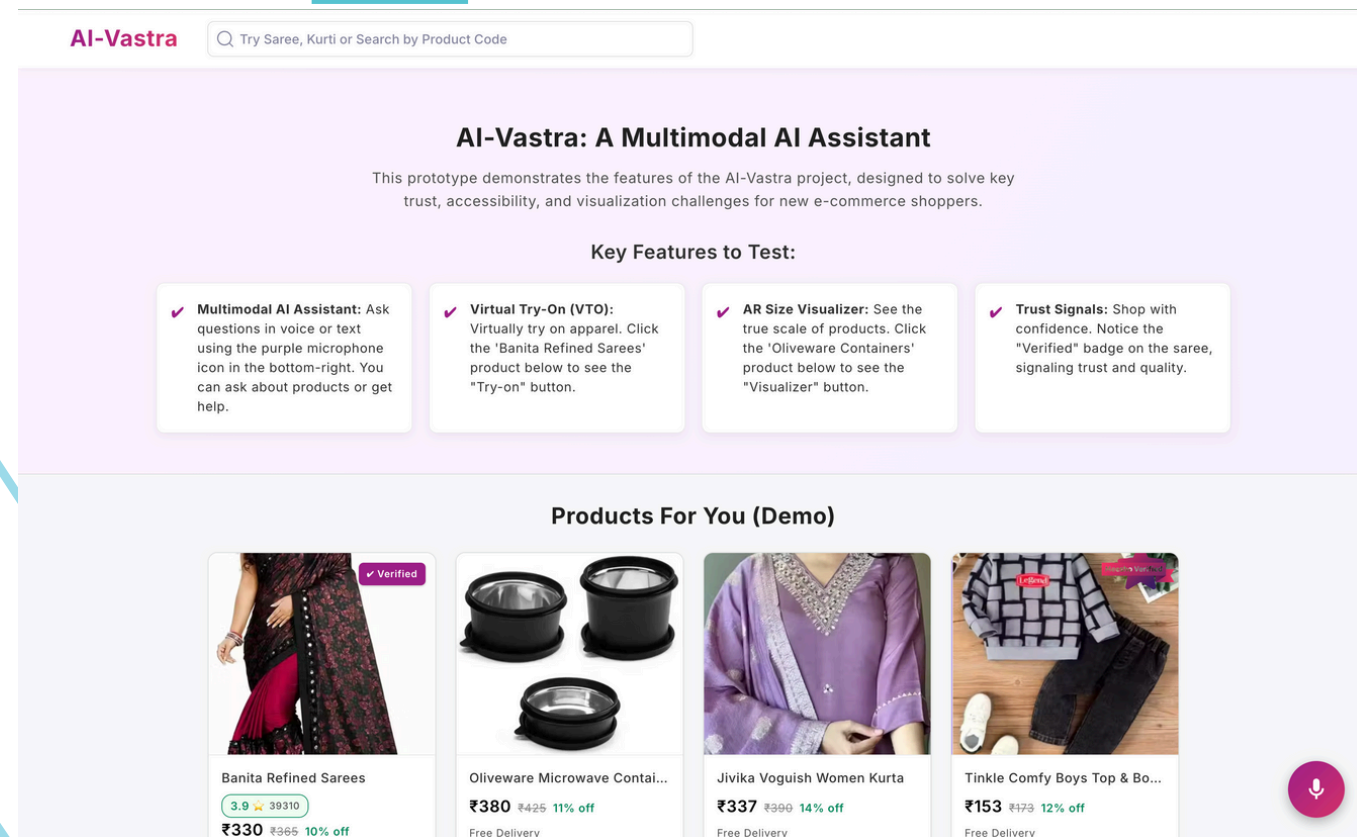


PROJECT PRESENTATION

By DominatorX
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INTRODUCTION



- AI-Vastra is a multimodal AI assistant designed for e-commerce shoppers.
- It integrates speech, language, and vision technologies to improve trust, accessibility, and visualization during online shopping.
- Users can interact with products through voice or text, and visualize fit or scale through AI-powered tools.
- The prototype demonstrates how existing AI APIs can be combined into a cohesive user experience.

BACKGROUND

GENERAL OVERVIEW

- Many new online shoppers struggle with trust issues and product visualization before purchase.
- Accessibility barriers exist for users with low literacy or language limitations.
- Current e-commerce platforms lack integrated multimodal support (speech, vision, and text).
- Emerging AI technologies (LLMs, AR, and speech services) provide opportunities to reimagine user experience in digital retail.

GOALS

GOAL 01

- **Implement Multimodal Interaction:** Enable speech-to-speech and text-based communication for hands-free, accessible shopping.
- **AI-Powered Product Q&A:** Use LLMs (e.g., Gemini/Perplexity) to generate intelligent answers from reviews.


GOAL 02

- **Visualization Suite:** Provide a Virtual Try-On (VTO) for apparel and an AR Size Visualizer for real-world scale.
- **Cohesive Integration:** Merge all features into a multilingual, user-friendly prototype.


PROBLEMS

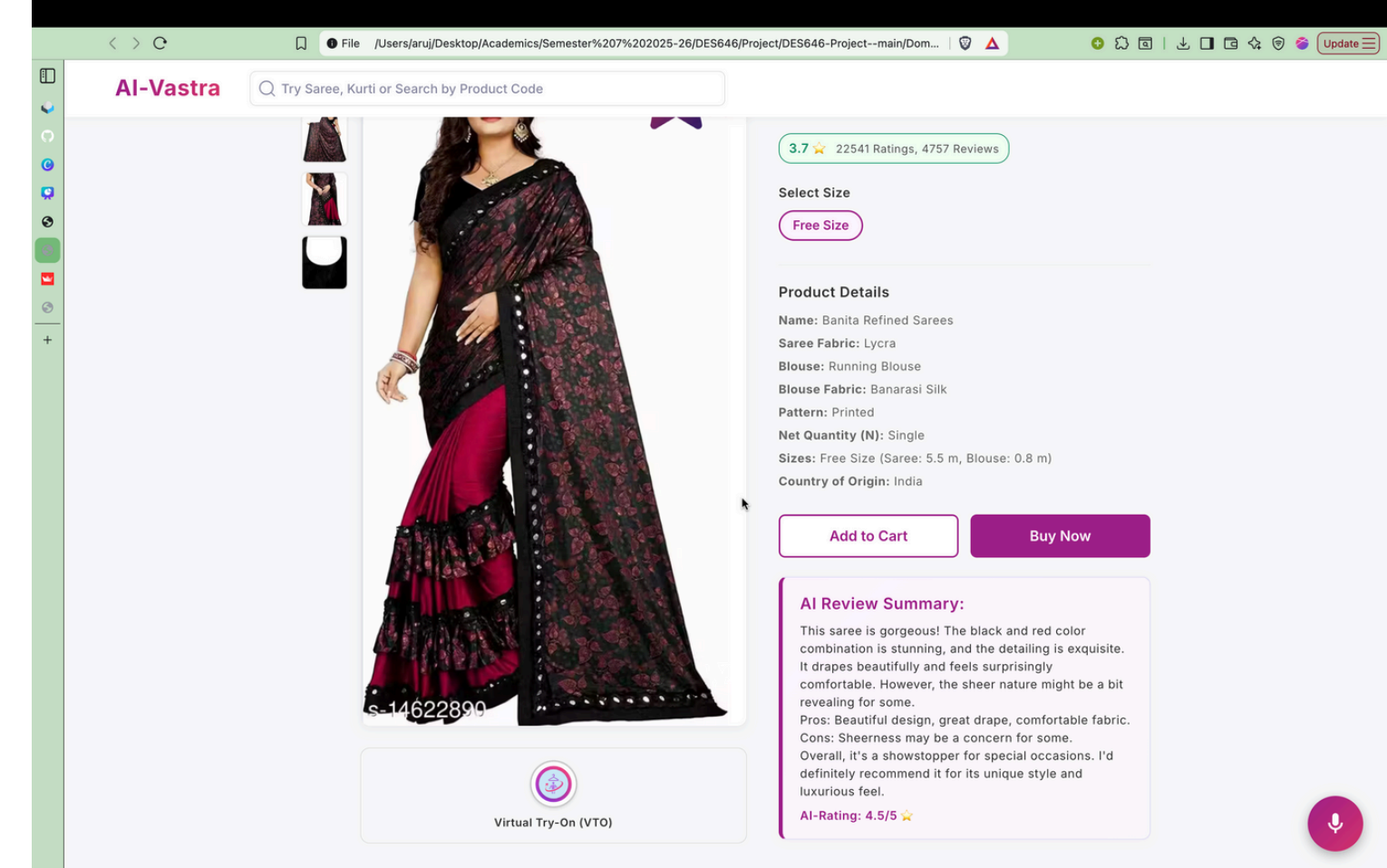
- Trust Deficit: Users hesitate to buy due to fake or unclear product information.
- Lack of Visualization: Inability to estimate size or fit before purchase.
- Accessibility Barriers: Language and literacy gaps restrict participation.
- Fragmented Interfaces: Current AI tools exist separately, lacking unified design.

KEY FEATURES 1


-  Multimodal AI Assistant
- Interact using voice or text through a friendly interface.
- Tap the purple microphone icon (bottom-right) to ask questions or request product help.
- Provides AI-generated summaries and intelligent answers from reviews and descriptions.

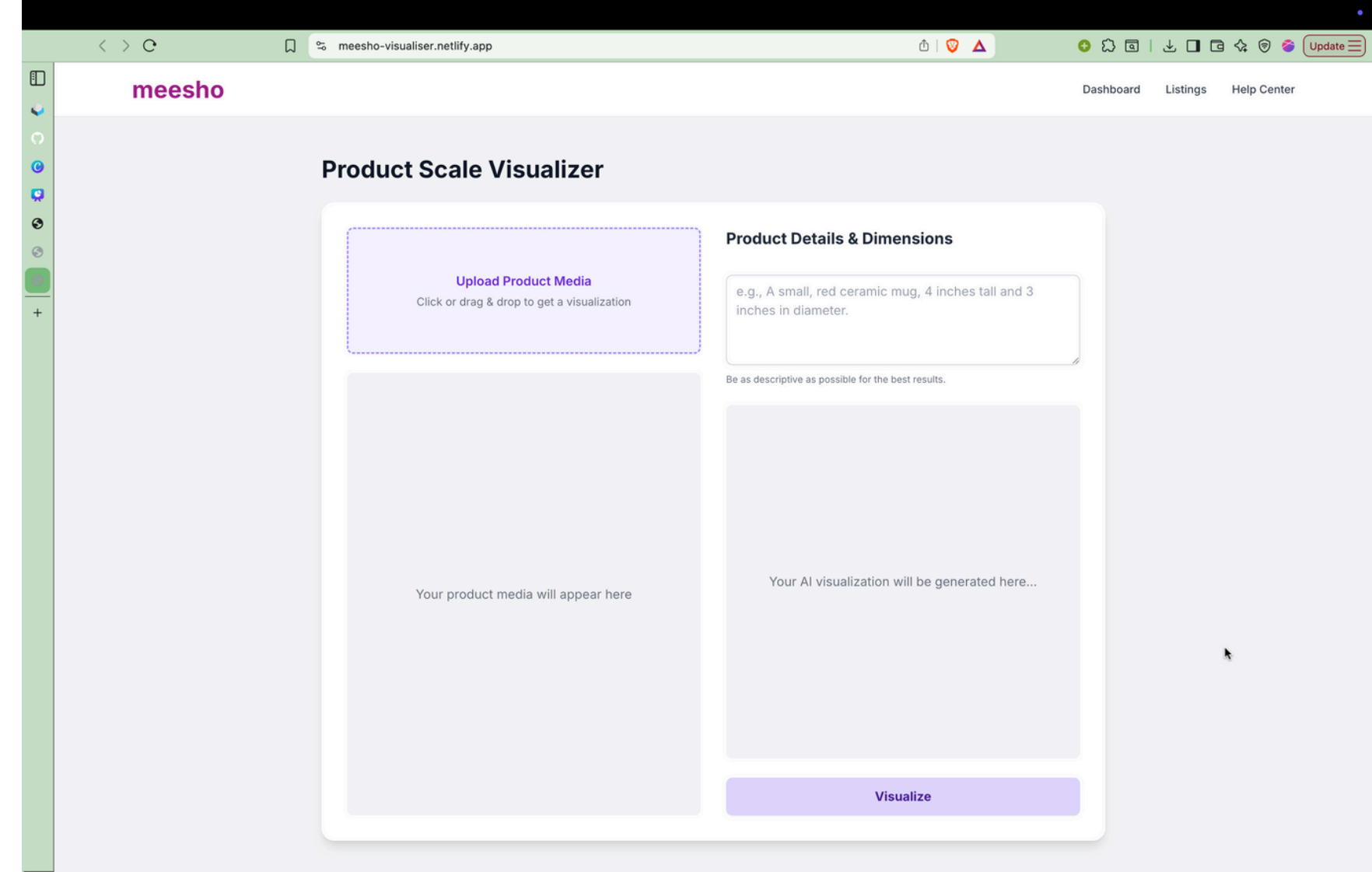
KEY FEATURES 2

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- Virtual Try-On (VTO)
- Allows users to virtually try on apparel before purchase.
- Example: Click “Banita Refined Sarees” to see the “Try-On” button in action.



KEY FEATURES 3

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- AR Size Visualizer
- Displays the true physical scale of non-apparel products.
- Example: Click “Oliveware Containers” to open the “Visualizer” and view product scale beside a human hand.

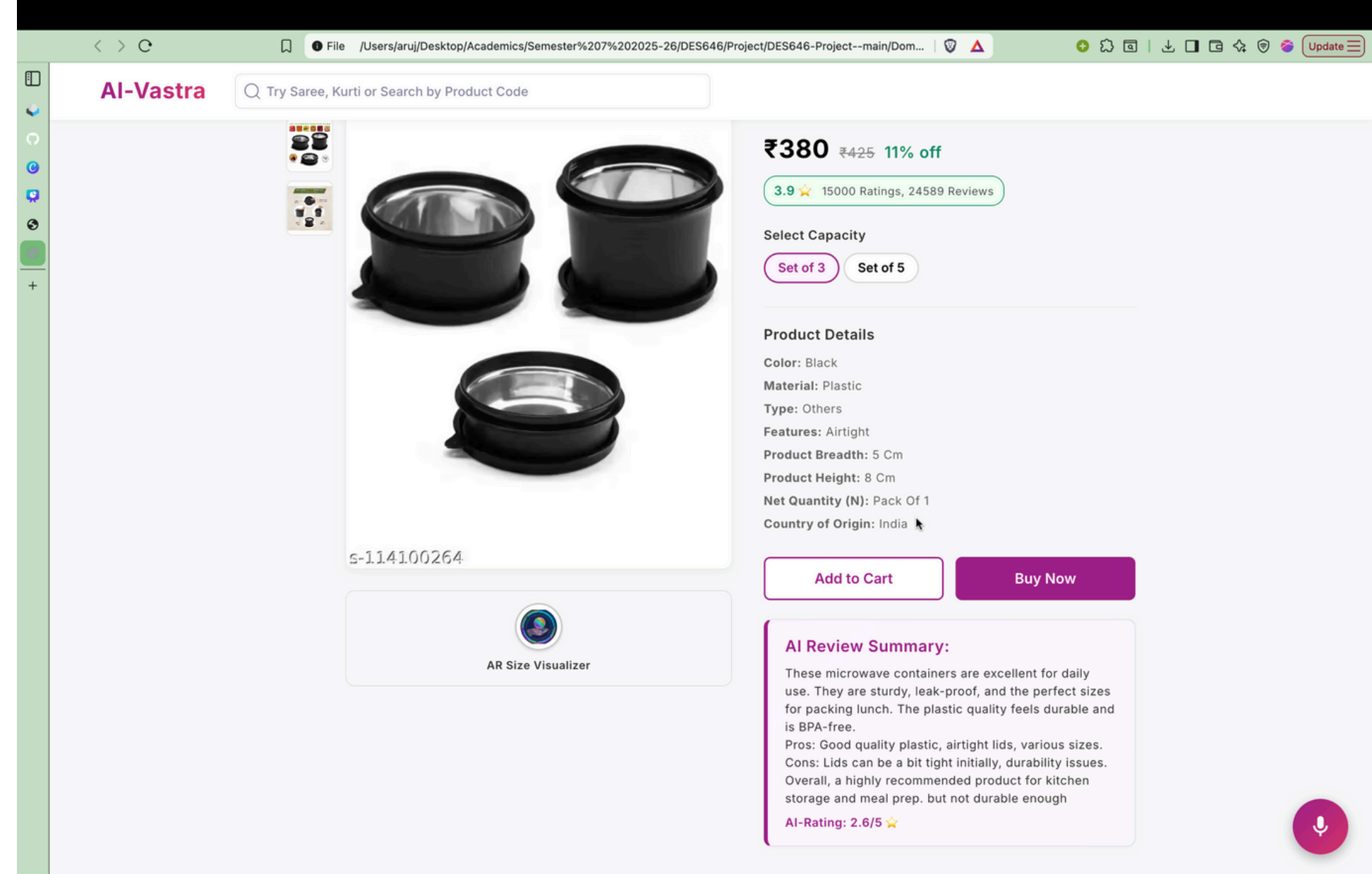


KEY FEATURES 4



- Trust Signals

- Products display a “Verified” badge as a trust and quality marker.
- Helps users make confident purchase decisions, especially in new or low-literacy markets.



CONCLUSION

- AI-Vastra showcases how multimodal AI can enhance trust, inclusivity, and engagement in e-commerce.
- The project emphasizes integration over invention — creatively combining existing APIs for user benefit.
- Potential next steps include user testing, scaling, and academic dissemination in HCI or design research venues.
- Represents a step toward ethical, accessible, and AI-enhanced shopping for diverse audiences.

The background features abstract geometric shapes in teal, including rectangles and triangles. There are also patterns of small teal circles arranged in grids in the corners. The text "THANK YOU" is centered in a bold, black, sans-serif font.

THANK YOU