

Slide 1 : Project name I TechGuide Voice

AI TechGuide Voice

.The project is aimed at creating an intelligent assistant for visually impaired users, particularly office workers. The assistant helps correct errors, translate text, copy information, supports voice input, and reads out queries and text. This assistant makes working with a computer accessible and convenient for everyone.

Slide 2: Team EchoFist

- **Alona** – Team Captain Author of the Idea Full-stack Developer.
 - **Anastasiia** -Developer
 - **Winfred** -R&D Analyst
 - **Nazarii** – Developer UI/UX Designer
 - **Ihor**– Back-end Developer.
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Slide 3: Relevance

- 285 million people worldwide have visual impairments, 39 million of whom are blind.
 - There is a need for accessible technologies to integrate visually impaired users into the modern digital world.
 - The project addresses the issue of digital inclusivity, ensuring equal opportunities for office work.
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Slide 4: Market Analysis

Similar Solutions:

- Screen readers (NVDA, JAWS).
- Voice assistants (Siri, Alexa, Google Assistant).

What Makes Our Project Unique:

- A combination of voice-over, translation, and error correction features in a single interface.
 - Specific focus on office work.
 - Ease of integration into any work environment.
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Slide 5: Results

- Implemented support for voice input and text-to-speech.
 - Integration of translation and text copying functions.
 - Automatic text error correction.
 - Designed a user-friendly and accessible interface with high-contrast theme support.
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Slide 6: Value

Social Impact:

- Ensuring equal opportunities for visually impaired users.
- Promoting inclusivity in office environments.

Commercial Impact:

- Enhancing team productivity through automation.
 - Potential for scalability in corporate environments.
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Slide 7: Future Prospects

CONTINUE WORKING WITH THE TEAM ON THE PROJECT AFTER THE SUMMER SCHOOL

- Adding image recognition features to describe charts and diagrams.
 - Integration with popular office applications (Microsoft Office, Google Workspace).
 - Expanding language support.
 - Developing a mobile version for smartphone use.
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Slide 8: Analogs

Program / Service	OCR (text removal)	Translation	Voice view / Voiceover	Operating system	
AI TechGuid Voic	✓	✓	✓ (there is voice acting)	Windows (further cross-platform development)	
NVDA	✗	✗	✓ (via DictationBridge)	Windows	screen reader, Braille support
JAWS	✗	✗	✓	Windows	the biggest support for office and software
Voice OCR Document Reader	✓ (with a camera)	✗	✓ (voice control)	iOS	for working with paper documents
Braina Pro	✗	✗	✗	Windows, Android	Voice control, but no narration
Windows Speech Recognition	✗	✗	✗	Windows	For dictation, no voiceover
Kurzweil 3000	✗	✗	✗	Web, mobile app	Creates transcripts, does not voice over