### **Slide 1 : Project name AI TechGuide Voice**

**Presenting to your attention the AI TechGuide Voice project**

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, and supports voice output of queries and text. This assistant makes working with a computer accessible and convenient for everyone.

### **Slide 2: Team EchoFist**

Our team EchoFist is made up of

* **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.

In the upper right corner you can see a link to the repository with information

### **Slide 3: Relevance**

The relevance of this program is driven by the global need to ensure digital accessibility for people with visual impairments. Approximately 285 million people worldwide have visual disabilities, including 39 million who are completely blind, creating a demand for specialized tools to integrate them into the digital environment. The program aims to enhance digital inclusivity by providing equal opportunities for office work. With support for voice output, translation, text copying, and error correction prompts, the program significantly simplifies the completion of everyday work tasks. Thus, it contributes to the social adaptation and professional development of people with visual impairments.

### **Slide 4: Market Analysis and Analog**

There are many similar solutions, but almost none of them can read text from images and translate it into a user-friendly language. An analysis of such systems can be seen on the slide. No program currently includes an assistant that can help users understand and fix computer errors. This makes the solution valuable not only for people with visual impairments but also for those who struggle to understand computer error messages.

**Slide 5: Analogs**

Four free neural network APIs were used for the implementation. Descriptions of the main ones are shown on the slide. The fourth API is used for text-to-speech synthesis.

The slide also presents the program's workflow algorithm, which is simple and clear, ensuring fast and efficient program performance

### **Slide 6: Results**

At the moment, voice output in Ukrainian is available. The intermediate results of the software can be seen on the slide.

### **Slide 7: Value**

Social Benefits:

* Increased autonomy and confidence of users when working with digital documents.
* Ensuring accessibility of standard office software and support for multilingualism.
* Improved quality of life by reducing stress and facilitating communication.
* Helping organizations comply with disability rights laws and enhancing corporate social responsibility.
* Promoting innovation in assistive artificial intelligence for other user groups.

Economic Benefits:

* Increased workplace productivity through automatic error correction, translation, and text-to-speech support.
* Reduced costs for expensive specialized software and training for visually impaired employees.
* Expanded employment opportunities for people with visual impairments, contributing to economic growth.
* Minimal data storage costs due to image processing via clipboard.

### **Slide 8: Future Prospects**

We plan to implement image recognition for automatic description of charts and diagrams, integrate the solution with leading office suites such as Microsoft Office and Google Workspace, expand language support to reach a global audience, and develop a mobile version for convenient use on smartphones. We will continue working with the team on the project after the summer school.

### **Slide 8: Thank you for your attention**

Thank you for your attention. We are ready to answer your questions.