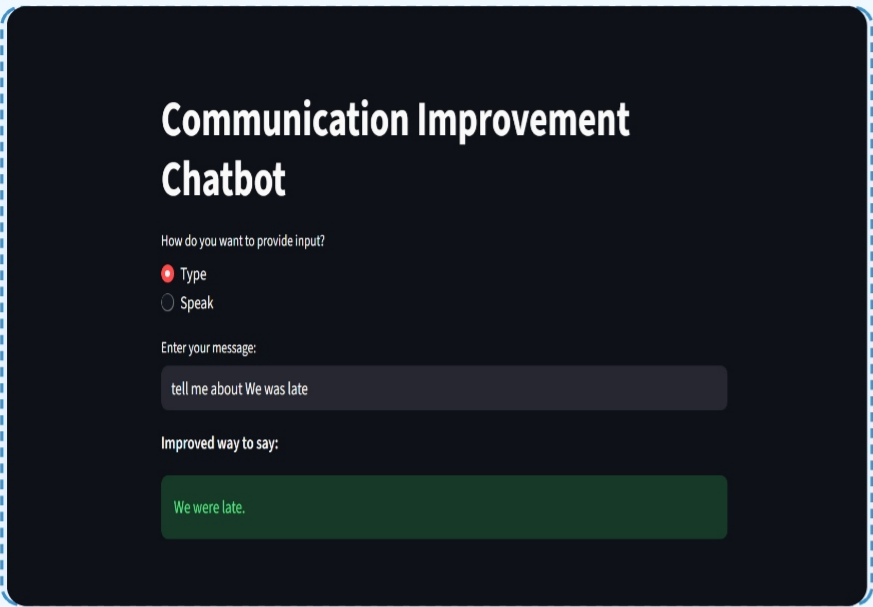


Communication Improvement Tool

Your AI Partner for Confident and Clear Expression

Delight Mapeza. JLU08866

Live Demo Interface



The model offers a user-friendly experience with both text and speech input options.

Input: "tell me about We was late"

Improved Output: "We were late."

Users can compare original and improved versions to enhance their communication skills.

The Challenge

Effective communication is a cornerstone of success, yet many struggle with clear verbal and written expression, leading to misunderstandings and a lack of confidence.

The Solution

An intelligent chatbot that provides **real-time, AI-powered feedback** on your grammar, clarity, and style. Communicate with confidence in any setting.

How It Works



Flexible Input

Type your text or use speech input



AI Analysis

FLAN-T5 model finds improvements



Instant Feedback

Get polished version immediately



Learn & Improve

Compare original and improved text

Original: "We was late because of the traffic."

Improved: "We were late because of the traffic."

Technical Implementation

```
if (input_option == "Speak") {
  audio = speech_recognition.listen()
  text = speech_recognition.transcribe(audio)
}

improved_text = flan_t5_model.correct(text)
display_improvement(improved_text)
```

Technology Stack

FLAN-T5

Transformers

PyTorch

Pandas

Streamlit

SpeechRecognition

Benefits & Future Vision

- **Boost Confidence:** Communicate clearly and confidently
- **Accessible Learning:** User-friendly interface for real-time practice
- **Scalable:** Future plans for multi-language support
- **Advanced Features:** Emotion and gesture recognition
- **Mobile & Cloud:** Expansion to apps and cloud platforms

A Practical AI Application

This project bridges the gap between AI theory and tangible benefit, applying **NLP, Deep Learning, and Search Algorithms** to solve a real-world problem and enhance daily human interaction.

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Made with ❤️ using Streamlit & Transformers