Empowering Communication: AI for Autism and Borderline Autism

Seamless Communication with Context-Aware AI using RoBERTa

Team Name: **Segmentation fault**

Problem Statement

Autistic individuals often struggle with nuances in text-based communication, such as tone, intent, and emotional context, leading to misunderstandings. This tool aims to provide real-time insights like emotion detection, intent clarification, and simplified explanations to help them communicate more confidently and effectively.

Challenges in Communication

- People with autism or borderline autism face difficulties interpreting emotions and context in text.

- Misinterpretations can lead to anxiety and miscommunication.

- A tool is needed to bridge the gap and improve clarity and understanding in communication.

Our Goal

- Build an AI-powered platform using RoBERTa to:

- Analyze context and sentiment of messages.

- Provide clear and simplified rephrased text.

- Enable anxiety-free and meaningful communication.

Core Features

- Sentiment Analysis: Understands tone (e.g., happy, frustrated, neutral).

- Context Understanding: Detects intent to avoid miscommunication.

- Text Reformation: Rephrases text for clarity and simplicity.

- Personalized Suggestions: Offers tailored responses.

How It Works

1. User sends a message.

2. RoBERTa analyzes context and sentiment.

3. AI reformulates text for better understanding.

4. Receiver gets context-enhanced message.

5. Suggestions are provided for crafting replies.
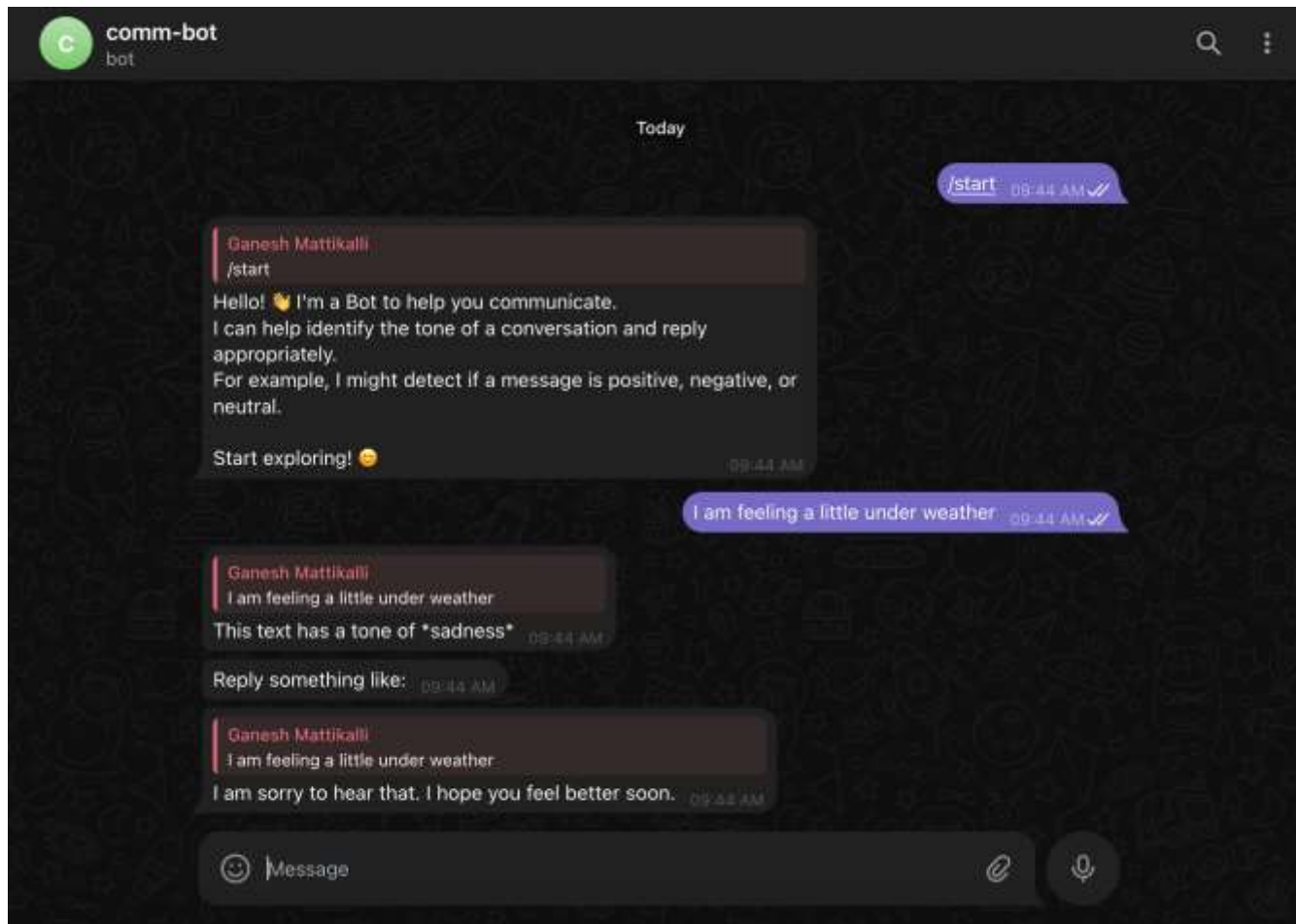
Benefits

- Enhances confidence in communication.

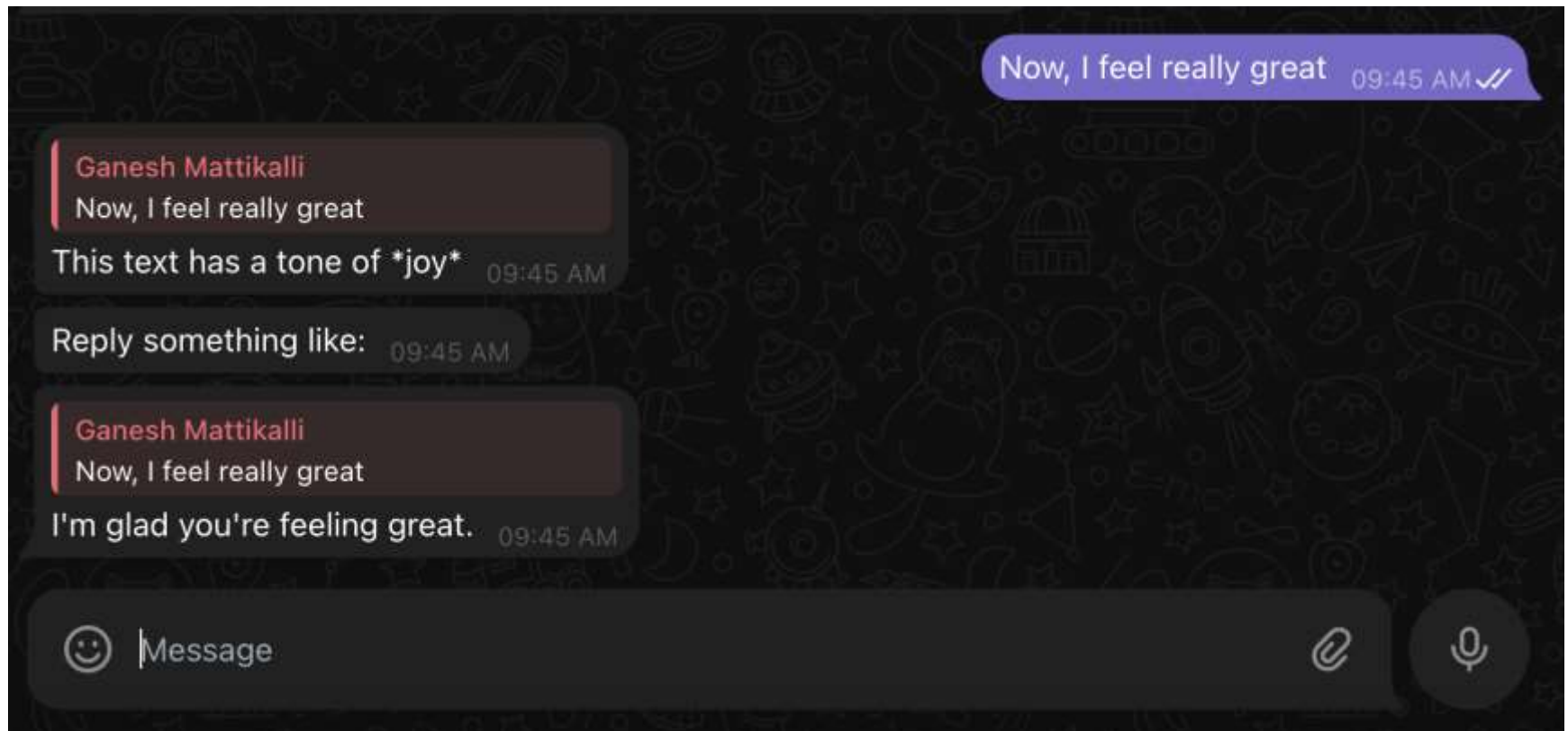- Reduces anxiety and misunderstandings.

- Promotes inclusivity and accessibility.

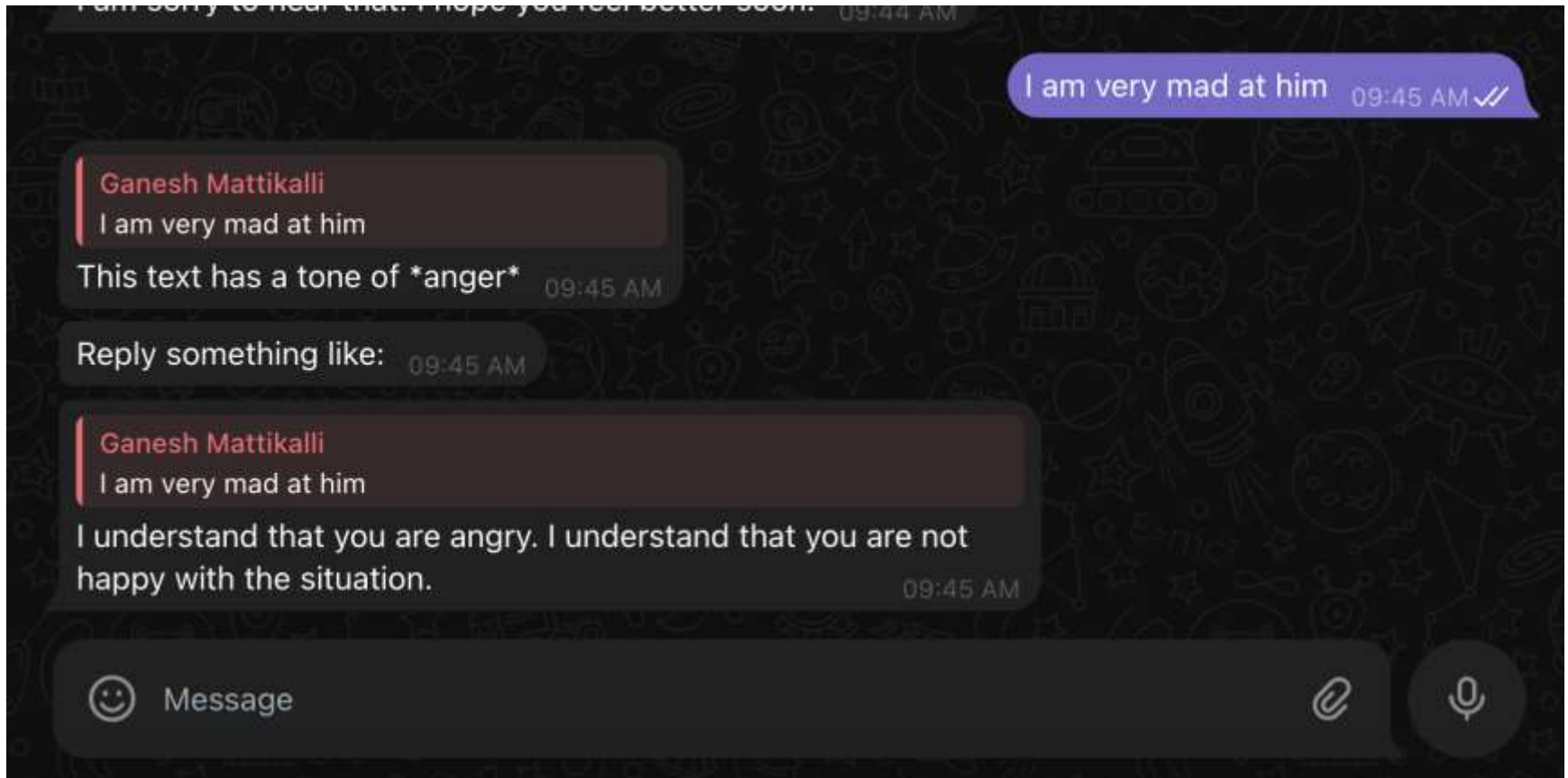- Improves relationships and social interactions.

Results

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Conclusion

RoBERTa-powered platform empowers seamless communication.

Bridges the gap for neurodiverse individuals.

Let's innovate for a more inclusive future.