

🌐 EmojAI: Enhancing Digital Communication with AI-Powered Emoji Suggestions 🌐

EmojAI is an innovative project designed to make digital conversations more expressive, empathetic, and inclusive. By leveraging artificial intelligence and natural language processing (NLP), EmojAI suggests contextually appropriate emojis based on real-time sentiment analysis, helping users convey emotions that are often lost in text-based interactions.

🌐 What is EmojAI?

EmojAI tackles the challenge of expressing emotions in written digital communication, where non-verbal cues (like facial expressions or tone of voice) are absent. It employs a **hybrid NLP and rule-based approach** to:

- Detect **primary, secondary, and mixed emotions** (e.g., "happy-sad" 😊😞)
- Map emotions to relevant emojis, considering **intensity modifiers** (e.g., "very happy" 😄)
- Offer **transparent explanations** for each emoji suggestion, setting it apart from generic emoji keyboards

🌐 Key Features

- Contextual Emoji Suggestions:** Powered by advanced sentiment and emotion detection
- Modular Python Design:** Easy to integrate with messaging platforms, chatbots, customer support systems, and social media
- Transparency:** Users get explanations for every suggestion, enhancing trust and understanding
- Hybrid Emotion Analysis:** Combines NLP techniques with rule-based logic for nuanced emotion detection
- Inclusive and Adaptive:** Supports applications for non-native speakers and people with communication challenges

🌐 Domains & Applications

- Artificial Intelligence (AI)
- Natural Language Processing (NLP)
- Human-Computer Interaction (HCI)
- Social Media Technology
- Emotional Computing

🌐 SDG Goals Addressed

SDG Goal	EmojAI's Contribution
🌐 SDG 3: Good Health & Well-being	Promotes mental well-being via improved emotional expression in digital communication
🌐 SDG 4: Quality Education	Adaptable as a tool for language learning and emotional literacy
🌐 SDG 9: Industry, Innovation & Infrastructure	Showcases innovation in AI-driven communication tools
🌐 SDG 10: Reduced Inequalities	Enhances inclusivity for non-native speakers and those with communication challenges
🌐 SDG 17: Partnerships for the Goals	Fosters collaboration between AI developers and social platforms

🌐 Bridging Technology & Human Emotion

EmojAI represents a step toward a more **empathetic, inclusive, and expressive** digital world. By aligning with global Sustainable Development Goals, it aims to make digital interactions healthier and more human.