

SME AI Talk

We explored the use of CrewAI as a potential framework for managing the AI components of the Talking Bench project. CrewAI's ability to orchestrate multi-agent collaboration was highlighted as a strong candidate for implementing conversational intelligence, particularly for managing tasks like intent detection, response generation, and conversation flow in a modular manner.

Additionally, the conversation addressed the challenges posed by noisy, outdoor environments, particularly in relation to speech recognition accuracy. To mitigate this issue, two potential solutions were proposed:

Adding a Button to Start Interaction: A button could be integrated into the bench to trigger the AI system when a user wants to interact. This simple mechanism would reduce unnecessary background noise by only activating the microphone when the user is ready to speak.

Landline-Style Phone Mechanism: Another innovative suggestion was to incorporate a landline-style handset. Users would lift the phone to start the interaction, which would:

Physically signal the system that the user is ready to speak.

Bring the microphone closer to the user, significantly improving audio quality and reducing background noise.

Enhance the system's usability in outdoor settings by isolating the user's voice from ambient noise.

These approaches not only address technical challenges but also offer user-friendly solutions that align with the project's goals of inclusivity and accessibility. Further exploration and testing will help determine which option provides the best balance of practicality and performance.