

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.