

Haru Chu

Instructor Fred Annexstein

CS5001

Self-Assessment and Team-Assessment

Part A: Self-Assessment

- In this project, my primary contribution was focused on implementing various functionalities of the Virtual Voice Assistant "Alice." I integrated speech recognition to enable user interaction via voice commands, implemented text-to-speech functionality for Alice's responses, and integrated the OpenAI API to enhance her conversational abilities using ChatGPT. Additionally, I played a key role in designing and developing the graphical user interface (GUI) for the application. I applied the skills identified in my initial assessment, particularly in programming, logic flow design, and API integration. I approached the project with a structured plan, breaking down tasks into manageable units and tackling them systematically. Through this project, I learned how to effectively integrate complex technologies to create a cohesive and functional product, enhancing my competencies in software development.
- I encountered several obstacles during the project, primarily related to debugging and optimizing the performance of the speech recognition and text-to-speech modules, and figuring out how to package Python based application. However, through persistence and troubleshooting, I was able to overcome these challenges and deliver a high-quality product. One of my successes in this project was the successful integration of the various technologies, resulting in a seamless and user-friendly voice assistant application.

Part B: Team-Assessment

- As a group, we successfully developed and launched "Alice," a Virtual Voice Assistant with advanced functionalities. Through this project, I learned valuable lessons about teamwork and collaboration. Our group effectively divided tasks based on each member's strengths and skills, which contributed to the smooth progress of the project. We maintained open communication channels, regularly updating each other on progress and addressing any issues promptly. However, there were some aspects of teamwork that were challenging, such as coordinating schedules for group meetings and ensuring consistent progress across all tasks.
- In comparison to my teammate, my efforts were focused more on the technical implementation aspects of the project, such as integrating technologies and developing functionalities. Each team member contributed unique skills and perspectives, which were essential to the overall success of the project. Special recognition goes to Trien Dau for his exceptional work in brainstorming and building the application's prototype, which significantly contributed to the overall quality of the project.