SARA
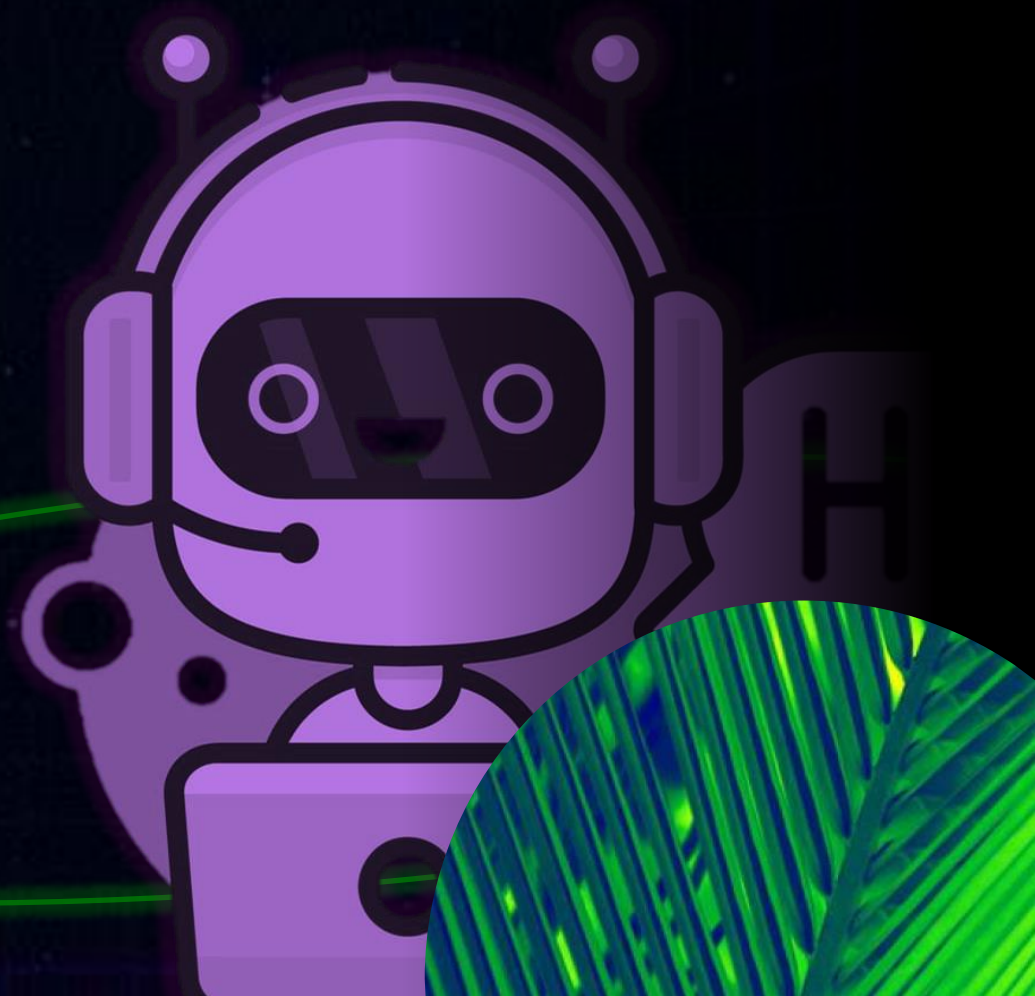
AI COMPANION

Made By

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INTRODUCTION

+ SARA AI IS AN INTELLIGENT, MULTILINGUAL, VOICE-ENABLED CHATBOT.

+ BUILT USING KIVY, GEMINI API, GTTS, AND SPEECH RECOGNITION.

+ DESIGNED TO HELP USERS INTERACT NATURALLY WITH AI — IN TEXT OR SPEECH.

Font Size:	14
Font Family:	Arial
Background:	Default
Text Color:	Default

Select Sarah's Output Language:

English	हिन्दी	Español	Français	Deutsch
Italiano	日本語	한국어	中文 (简体)	मराठी
বাংলা	ગુજરાતી	ਪੰਜਾਬੀ	தமிழ்	తెలుగు
ಕನ್ನಡ	മലയാളം	اردو		

•KEY POINTERS-

- Customizable interface
- (background color, font color, font size)
- Supports multiple Indian and international languages.
- Voice activation: Say "Hey Sarah"
- Voice support for the visually impaired

SARA AI

TECHNICAL ARCHITECTURE

- **FRONTEND:** KIVY (PYTHON-BASED GUI FRAMEWORK)

- **BACKEND AI:** GOOGLE GEMINI API

- **SPEECH INPUT:** SPEECH RECOGNITION LIBRARY

- **SPEECH OUTPUT:** GOOGLE TEXT-TO-SPEECH (GTTS)

- **AUDIO PLAYBACK:** KIVY SOUND LOADER

- **Threading:** For non-blocking voice processin

RELEVANCE TO HACKATHON

+ **ALIGNED WITH THEME:** SARA AI DEMONSTRATES INNOVATIVE USE OF AI TOOLS TO ENHANCE USER INTERACTION AND ACCESSIBILITY.

+ **PRACTICAL IMPACT:** HELPS USERS PERFORM MULTIPLE TASKS [CHAT, VOICE COMMANDS, MULTILINGUAL SUPPORT] IN REAL TIME.

+ **TECHNICAL INNOVATION:** COMBINES GEMINI API, SPEECH RECOGNITION, AND GTTS WITH A PYTHON-BASED GUI FOR A SEAMLESS AI ASSISTANT EXPERIENCE.

+ **PROBLEM-SOLVING FOCUS:** ADDRESSES REAL-LIFE NEEDS LIKE PRODUCTIVITY, MULTILINGUAL COMMUNICATION, AND ACCESSIBILITY.

+ **HACKATHON READINESS:** THE PROJECT CAN BE DEMONSTRATED LIVE, SHOWCASING BOTH TECHNICAL IMPLEMENTATION AND PRACTICAL USABILITY.

ARTIST PORTFOLIO

FUTURE SCOPES

❑ <u>**ANDROID & IOS APP VERSION**</u> **–** EXTEND SARA AI TO MOBILE PLATFORMS FOR WIDER ACCESSIBILITY.

❑ <u>**OFFLINE MODE**</u> **–** ADD OFFLINE CAPABILITIES USING LIGHTWEIGHT AI MODELS FOR BASIC TASKS WITHOUT INTERNET.

❑ <u>**INTEGRATION WITH SMART DEVICES**</u> **–** CONNECT WITH IOT DEVICES FOR HOME AUTOMATION AND VOICE-CONTROLLED APPLIANCES.

❑ <u>**ADVANCED AI MODELS**</u> **–** INCORPORATE MORE POWERFUL MODELS FOR BETTER REASONING, MULTILINGUAL TRANSLATION, AND TASK AUTOMATION.

❑ <u>**PERSONALIZATION**</u> **–** ALLOW USERS TO CUSTOMIZE VOICE, RESPONSES, AND FEATURES BASED ON PREFERENCES.

❑ <u>**CLOUD SYNCHRONIZATION**</u> **–** ENABLE CROSS-DEVICE HISTORY AND DATA SYNCING FOR A SEAMLESS EXPERIENCE.