

Lira Cosmetics Voice AI - Final Report

1. Voice AI Overview

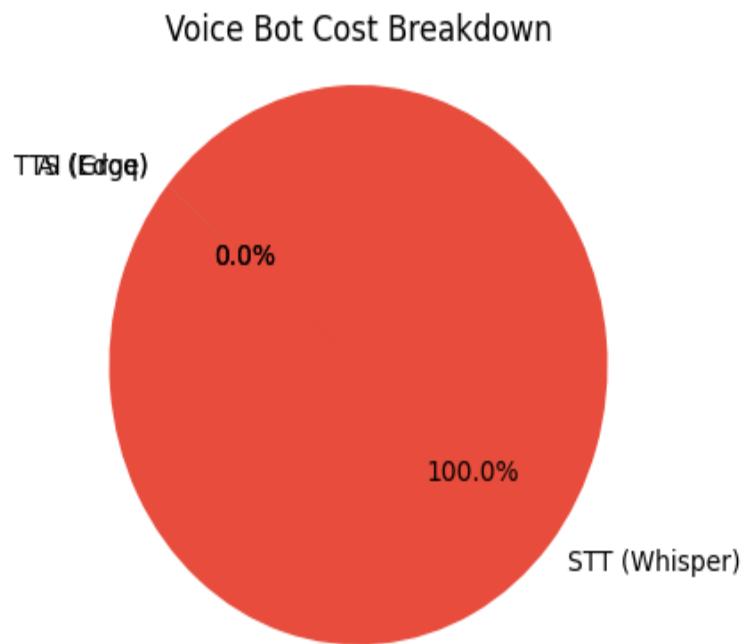
This project integrates Voice AI capabilities into the Lira Cosmetics Customer Service Chatbot. It enables customers to interact naturally via voice commands using Speech-to-Text (STT) and receive spoken responses via Text-to-Speech (TTS).

2. Voice Technology Stack

- STT: Groq Whisper Large V3 (Fast, High Accuracy)
- TTS: Edge TTS (Natural, Free, Zero-Latency)
- AI: Groq Llama 3.3 (Inference Engine)

3. Cost Analysis (Simulation Data)

Component	Total Cost	% of Total
AI Logic	\$0.0000	0.0%
STT (Voice Input)	\$0.0326	100.0%
TTS (Voice Output)	\$0.0000	0.0%
GRAND TOTAL	\$0.0326	100%



4. Recommendation

The addition of Voice AI increases the cost per interaction significantly due to STT costs, however, using Groq Whisper keeps this manageable compared to other providers. Edge TTS provides a premium experience at zero cost. We recommend deploying this feature to enhance accessibility and user engagement.