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).
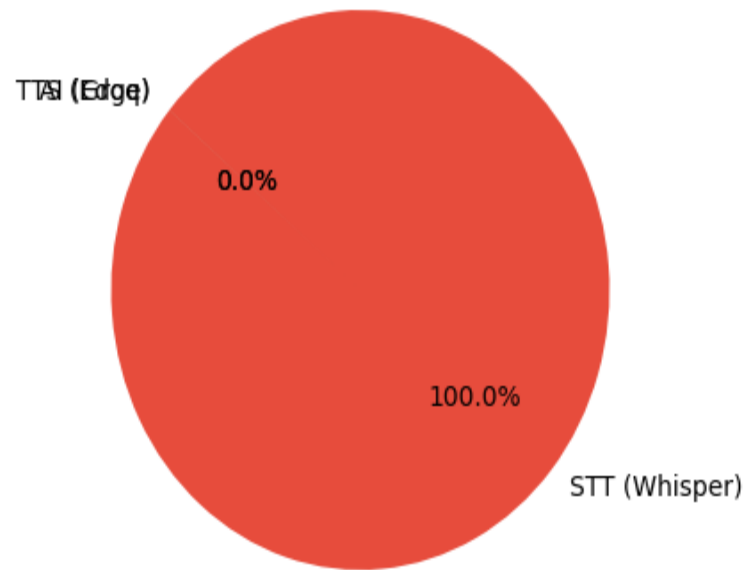
2. Voice Technology Stack

• 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%

Voice Bot Cost Breakdown

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.