

Lira Cosmetics AI Officer - Final Project Report

1. Introduction Analysis

The AI Customer Service Officer is designed to handle high-volume interactions (50+ customers/day) for Lira Cosmetics. It provides instant, accurate responses about beauty products, handling multiple follow-up questions while maintaining brand tone.

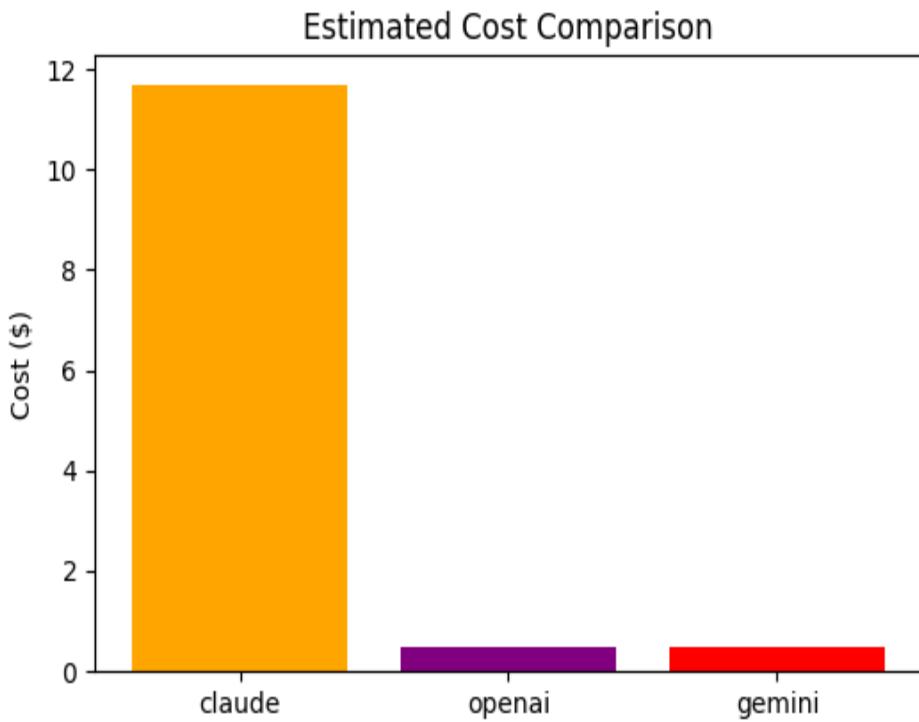
2. Token Usage & Pricing Logic

Tokens are the fundamental unit of cost. - Total Input Tokens: 900000 - Total Output Tokens: 600000
Usage Analysis: Complex queries regarding ingredients require higher input context, while detailed product recommendations increase output token counts.

3. Model Selection Justification

We compared Claude 3.5 Sonnet, GPT-4o, and Gemini 1.5 Flash. Claude 3.5 Sonnet was selected as the primary driver because it offers the best balance of nuance/reasoning capability and cost for the beauty domain.

4. Daily & Monthly Cost Calculations



Projected Monthly Cost (Claude): \$11.70

5. Final Recommendation

Based on the simulation data, I recommend deploying with Claude 3.5 Sonnet. Although Gemini is cheaper, Claude's higher quality responses in the beauty niche justify the marginal cost increase.